RS 221130

87 JUN 1386

THE FILE CO. 2

OPERATING LOCATION - A USAFETAC Air Weather Service (MAC)



· 是我们的自己的,我们就是我们的一个人的。

"LIMITED SURFACE OBSERVATIONS" CLIMATIC SUMMARY "LISOCS"

MURMANSK USSR

MSC #221130

N 68 28 E 033 03 ELEV 151 FT

PARTS A - F HOURS SUMMARIZED: 0000 - 2300

PERIOD OF RECORD:

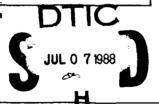
HOURLY OBSERVATIONS: SEP 77 - AUG 87

SUMMARY OF DAY DATA: NONE

JUN 2 2 1988

FEDERAL BUILDING

"Approved for public release HEVILLE, N.C. 28801 - 2723 Distribution Unlimited."



88 7 05 021

REPORT DOCUMENTATION PAGE

la. Report Security Classification: UNCLASSIFIED

3.Distribution/Availability of Report: Approved for public release; distribution unlimited.

4.Performing Organization Report Number: USAFETAC/DS-88/026

5.Monitoring Organization Report Number: USAFETAC/DS-88/026

6a. Name of Performing Organization: USAFETAC/OL-A

6b.Office Symbol:

6c.Address: Federal Building, Asheville, NC 28801-2723

7a. Name of Monitoring Organization: USAFETAC

7b.Address: Scott AFB, IL 62225-5458

llTitle: (LISOCS) MURMANSK USSR.

12Personal Author(s):

13aType of Report: Data Summary 13bTime Covered: Sep 77-Aug 87. 14Date of Report: Jun 1988.

15Page Count: 312

17COSATI Codes: Field--04, Group--02

18Subject Terms: *climatology *weather meteorological conditions winds
precipitation barometric pressure sky cover temperature relative humidity
paychrometric data visibility ceiling Limited Surface Observations Climatic
Summary(LISOCS); Murmansk USSR; Union of Soviet Socialist Republics; USSR; RS221130.

19Abstract: A statistical data summary of surface weather observation climatology: Murmansk USSR. This summary is similar to the Revised Uniform Summary of Surface Weather Observations (RUSSWO), but is based on data collected from limited-duty weather observing stations; i.e., those that take weather observations less than 24 hours a day, 7 days a week. The summary is in five parts: PART 1, Weather Conditions and Atmospheric Phenomena; PART 2, Surface Winds; PART 3, Ceiling and Visibility; PART 4, Psychrometric Summartes; and PART 5, Pressure Summaries. Note that PART 2, Precipitation, is omitted. See USAFETAC/TN-83-001 (AD132186), An Aid For Using The Revised Uniform Summary of Surface Weather Observations (RUSSWO), for complete descriptions of contents and instructions for

20Distribution/Availability of Abstract: Same as report.

21Abstract Security Classification: UNCLASSIFIED.

22a Name of Responsible Individual: Marianne L. Cavanaugh

22b Telephone: (618)256-2625.

22c Office Symbol: USAFETAC/LDD.

DD FORM 1473UNCLASSIFIED

REVIEW AND APPROVAL STATEMENT

USAFETAC/DS-88/026 (LISOCS) MURMANSK USSR Jun 1988 is approved for public release. There is no objection to unlimited distribution of this document to the public at large, or by the Defense Technical Information Center (DTIC) to the National Technical Information Service (NTIS).

This document has been reviewed and is approved for publication.

FOR THE COMMANDER

WALTER S. BURGMANN

Scientific and Technical Information Program Manager

LIMITED SURFACE OBSERVATIONS CLIMATIC SUMMARY

STATION NAME: MURMANSK USSR

STATION NUMBER: 221137

SUMMARIZED FOURS: SYNPOTIC 3-FOURLY

PEPIOD OF RECORD

HOURLY OPSERVATIONS: SEP 77 - AUG 87

SUMMARY OF DAY DATA (TEMPERATURES ONLY): DEC 56 - AUG 57 DATA NOT AVAILABLE SUMMARY OF DAY DATA (PART TIME): NONE

TIME CONVERSION LST TO GMT: -3

UNTE PRODUCEU: 30 TEC 87

ALL USERS OF THIS LISOUS MUST FAMILIARIZE THEMSELVES WITH THE SITE'S DATA LIMITATIONS PRIOR TO USING OR DISTRIBUTING THESE SUMMARIES. A SPECIAL CAVEAT PAGE PROVIDES IMPOPTANT INFORMATION FOR ALL USERS. THIS CAVEAT PAGE IS LOCATED IN FRONT OF THE SUPPLEMENTAL SECTION.

OL - / /USAF TTAC/MAC/AWS ASHEVILLE NC 28871

LIMITED SURFACE OBSERVATIONS CLIMATIC SUMMARIES -- LISOCS

FOURLY OBSERVATIONS: ALL RECORD OR RECORD SPECIAL OBSERVATIONS RECORDED ON THE AWS FORMS IC/IJA AT SCHEDULED HOURLY INTERVALS.

SUPPLEMENTAL DATA: DATA DEPIVED FURM EARLIEP PERIODS IF AVAILABLE, AND/OR FROM ONE OF MORE REPRESENTATIVE SITES AND COMBINED BY A METEOPOLOGIST.

DESCRIPTION OF SUMMARIES: PRECEDING FACE PART OF THE RUSSWO IS A BRIEF DISCUSSION OF THE SUMMARY INCLUDING THE MANNER OF PRESENTATION.
FOURLY SUMMARIES CONTAINING "TOTALS" AND "ALL HOURS" ARE ONLY FOR THOSE HOURS SUMMARIZED. IN COMPUTING THESE VALUES THE VALUES IN THE 3-HOUR TIME GROUPS WERE ADDED AND DIVIDED BY THE NUMBER OF GROUPS.

STARBARD 3-HOUR TIME GROUPS: IN ALL SUMMARIES SHOWING DIURNAL VARIATIONS, WE SUMMARIZE DATA USING THE FOLLOWING EIGHT 3-HOUR TIME PERIODS IN LOCAL STANDARD TIME: C000-0200, J330-0500, 0600-0800, 0900-1100, 1000-1400, 1500-1703, 1800-2000, 2100-2300 LST.

FOR A DETAILED DESCRIPTION OF EACH SUMMARY WITH EXAMPLES AND CXERCISES ON ITS USAGE, SET USAFETAC/TN-83-001. "AN AID FOR USING THE PEVISED UNIFORM SUMMARY OF SURFACE MEATHER OBSERVATIONS" (RUSSWO).

TABLE OF CONTENTS

PART A: WEATHER CONDITIONS AND ATMOSPHERIC PHENOMENA SUMMARIES

PART B: SEE SUPPLEMENTAL DATA SECTION PELOW

PART C: SURFACE WIND SUMMARIES

PART D: CELLING VERSUS VISIBILITY AND SKY COVER SUMMARIES

PAPT E: TEMPERATURE AND RELATIVE FUMIDITY SUMMARIES

PART F: PHESSURE SUMMARIES

SUPPLEMENTAL DATA SECTION -- SUMMARY OF DAY DATA

ARSHUC NUMBER: THIS NUMBER IS THE AIR WLATHER SERVICE MASTER STATION CATALOG NUMBER. THIS NUMBER IS COMPRISED OF THE WMO NUMBER WITH THE ADDITION OF A SUFFIX OF THROUGH 91. IN CASES WHERE THERE IS NO DESIGNATED WMO NUMBER, A S-DIGIT NUMBER IS CREATED IN AGREEMENT WITH WMO RULES PLUS A SIXTH DIGIT. THESE NUMBERS ARE ALSO REFERRED TO AS DATSAY OR USAFETAC NUMBERS WHICH UNIQUELY IDENTIFY MORE THAN 15,000 REPORTING STATIONS WORLD WIDE.

NOTE: THE FIRST AND LAST HOUR GROUPS MAY UP MAY NOT CONTAIN ALL THREE HOURS, SEE HOURS SUMMARIZED ON COVER OR STATION HISTORY SMEET TO DETERMINE WHICH HOURS ARE INCLUDED IN THESE TWO HOUR GROUPS.

NSPECTER

.... THE JOT

Special

Dist

STATION N	O ON SUMMARY	STATION NAME		LATITU	DE	LONGITUDE	FIELD ELEV (FIT CALL	SIGN	WMO NUMP'R
2211	30	MURMANSK USSR		N 68	58	E 033 03	151 FT N/A			
		STATION LOCAT	ION A	ND IN	STRU	JMENT	ATION	HIST	TORY	
NUMBER OF		GEOGRAPHICAL LOCATION & NAME	TYPE	AT THIS LO	CATION	LATITUDE	LONGITUDE	ELEVATION ABOVE MSL		OBS PER Dat
OCATION 1	MURMANS	K USSR	FGN	FROM SEP 77	10 AUG 87	N 68 58	E 033 03	151 F	 	8
.	r old initio	. 0331	1.3	JE. 7.	1100 171					
ł										
ł						1		1		
l							1			
1										
l						}			}	
ĺ									-	
ļ]	
UMBER	DATE	SURFACE W	IND EQUIPMENT	INFORMATION			I			
OF OCATION	OF CHANGE	LOCATION		TYPE OF TRANSMITTE	TYPE OF RECORDER		REMARKS. AD	DITIONAL EQU	IPNENT, OR RE	ASON FOR CHANGE
j	·	N/A		N/A	N/A	N/A]			
l				1		ļ	}			
j										
Ì	1					}				
	:									

USAFETAC FORM NOV73 O-19 (OL A) PREVIOUS FOLITIONS OF THIS FORM ARE OBSOLETE

CONTINUED ON REVERSE SIDE

:

 \bigcirc

•

WEATHER CONDITIONS AND ATMOSPHERIC PHENOMENA SUMMARIES

WEATHER CONDITIONS SUMMARY

- 1. A PERCENTACE FREQUENCY OCCURRENCE SUMMARY OF VARIOUS ATMOSPHERIC PHENOMENA AND COSTRUCTIONS TO VISION.
- 2. DATA BASED ON FOURLY ORSERVATIONS.
- 3. SUMMARIZED BY THE STANDARD 3-HOUR TIME GROUPS BY MONTH, MONTHLY AND ANHUALLY CALL YEARS COMBINEDI.

DEFINITIONS:

1 5 5

i ~

** THORRESTAN ON A SECONDARY CHARGES THORRED THORRES AND WATERSPORTS

PAIN AND/OR DRIZZLE: ALL REPURTED RAIN AND OR DRIZZLE FALLING TO THE GROUND BUT NOT FREEZING.

FREEZING RAIN ANDVOR FREEZING DRIZZLE (GLAZE): ALL REPORTED FREEZING RAIN OF FREEZING DRIZZLE.

SNOW AND/OR SUFET. SNOW INCLUDING SHOW PELLETS AND GRAINS, ICE CRYSTALS AND PELLETS, AND/OR SLEET (ICE PELLETS).

FAIL: ALL REPORTED FAIL.

ALL PRECIPITATION: THIS CATEGORY INCLUDES ALL OBSERVATIONS REPORTING PRECIPITATION. BECAUSE MORE THAN ONE TYPE

OF PRECIPITATION MAY APPEAR IN A SINGLE OBSERVATION, THE SUM OF THE PERCENTAGES IN THE INDIVIDUAL COLUMNS MAY

EXCEED THE P REENTAGES IN THIS COLUMN.

FUG: ALL REPORTED FOG. ICS FUG AND GROUND FOG.

SMOKE AND/OR FAZE: ALL REPORTED SMOKE, FAZE AND ANY COMPINATION THEREOF.

BLOWING SNOW: ALL REPORTED BLOWING SNOWS INCLUDING DRIFTING WHEN REPORTED.

- DUST AND/OR SAND: ALL REPORTED DUST, SAND, PLOWING DUST, BLOWING SAND AND ANY COMPINATION THEREOF.
 THE ATMOSPHERIC PHENOMENA SUMMARY (DAYS WITH) INCLUDES ONLY THOSE REPORTS WE'VE PHENOMENA
 VISIBILITY LESS THAN 5/8 MILLS (1000 METERS).
- ALL OBSTRUCTIONS TO VICION: INCLUDES ALL REPORTS OF ORSTRUCTIONS TO VISION (FOG THRU DUST/SAND) AND BLONING SERAY. BECAUSE MORE THAN ONE PHENOMENA PER OBSERVATION MAY OCCUR, THE SUM OF THE INDIVIDUAL COLUMNS MAY EXCEED THIS COLUMN.

NOTES:

- 1. A VALUE IN THE TARLES OF ".C" INFICATES LESS THAN . JER DECLARENCE WHICH IS ESUALLY ONLY ONE OCCURRENCE
- THE TAR STATIONS RECONNING IN JAN 1960) AND SYNOPTIC PEPURTING STATIONS RECORDED ON THE AWS FORMS 10/10A AND TRANSMITTED LUNGLINE ONLY THE HIGHEST ORDER OF ATMOSPHERIC PHENOMENA OBSERVED. REGINNING IN JAN 1970, METTE STATIONS PECORDED ALL OBSERVED PHENOMENA BUT CONTINUED TO TRANSMIT ONLY THE HIGHEST ORDER. FOR EXAMPLE, IF THE OFSEFVATION CONTAINED RAIN, FOG AND SMOVE, ALL THREE WILL APPLAY ON THE AWS FORMS 10/11A, BUT ONLY THE RAIN WAS TRANSMITTED LONGLINE. THEFFFORE ONLY THE RAIN APPLARS IN OUR MATA GASE FOR HOURLY SUMMARIZATION. THIS PRACTICE EFFECTS THE FFRCENTAGES IN THE TABLES.

GLOBAL CLIMATOLOGY BRANCH USAFETAC AIR WRATHER SFRVICE/MAC

PEPCENTAGE FREQUENCY OF OCCUFRENCE OF WEATHER CONDITIONS FROM FOURLY OBSERVATIONS

STATION NUMBER: 221132 STATION NAME: MURMANSK USSR

b E c 10D	U F	RECORD:	78-87
MONTH			

HOURS (LST)	ISIMS	RAIN E/OR CH1ZZLL	FRZING RAIN G/OR DRIZZLE	SNOW E/OR SLEET	HAIL	% OBS WITH PRECIP	FOG	FAZE FAZE	BLOWING Snow	DUST E/OR SAND	* 085 W/CBST TO VISION	TOTAL 085
60-02 I	•••••	. 7	.3	32.3	. 3	33.3	18.C	• • • • • • •	2.0	• • • • • •	20.1	294
27-25				34.2		34 • 2	16.6		2.3	. 3	19.3	301
16-08				38.4		38.4	15 • 1	. 3	. 7		16.1	292
09+11			. 3	37.7		3a • 0	15.7	. 1	• 3		16.7	30 ú
12-14				32.8		32.8	21.7	1.4	. 3		23.4	296
15-17				32.4		32 . 4	23.9	1.6	• 0		26.2	309
13-20				30.4	• 3	30.7	20.3	. 3	• 3		€C.9	296
21-23	• 3			37.7		37 • 7	18.2	. 6	1.6	. 3	20.8	308
TOTALS 1	• 2		. 1	34.5	- 1	34 . /	18.1	. 6	1.3	. 1	¿ C • 4	2390

STATION NUMPER: 221132 STATION NAME: HURMANSK USSR

PETIOD OF PECOPD: 78-87 MCNTH: FEP

	ES TMS	RAIN E/OR UPI/ZLL	FRZING RAIN E/OF URIZZLE	SNOW &/OR SLEET	⊬AIL	% OHS WITH PRECIP	FOG	SMOKE E/OR FAZE	PLOWING SNOW	DUST &/OR SAND	* OBS W/CBST TO VISION	TOTAL OBS
-3-nz	• • • • • • • • • • • • •	• • • • • • • •	•••••	31.1	. 4	?1.5	9.6	1.1	. 4	• • • • • •	11.1	270
£3-35		. 4		31.5		34.9	12.2	. 4	1.3		14.3	279
(6-78-)	. 4			32.5		32.5	9.9	. 4	1.1		11.3	274
(9-11-1		. 7		31.0		31.4	13.1	. 7	. 7	. 4	15.0	274
17-14		. 4		27.4		27.4	15.3	. 4	. 7		16.4	281
1-17		1.1		24.8		٠, ٠,	10.4	. 7	. 7		11.9	278
18-20-1		1.8		27.4		21 4	10.6	. 1	1.1		12.4	274
21-23 1	. 4	1.4	.7	27.4		29.3	10.5	. 7	. 7		11.9	211
1 CLATOF	.:	. 1	•1	29.1	•1	29.0	11.5	.6	, 9	• 1	13.0	2207

GLOBAL CLIMATOLOGY FRANCH LSAFLTAC AIR WEATHER SERVICE/MAC

FERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHEM CONDITIONS FROM HOURLY OUSERVATIONS

STATION NUMBER:	201130 STATION NAME:	MURM AN SK	USSR				PERLOD MONTH:	OF PECORD:	: 78-87		
HOUPS (LST)	RAIN TSTMS E/UR UPIZZLE	FRZING HAI!! E/OR DRIZZLE	SNOW E/OR SLEET	FAIL	1 OBS #IIH PRECIP	FOG	SMOKE E/OR HA/E	PLOWING SNOW	PUST ROV3 UNAS	1 085 W/C851 TO VISION	CBS
0e-02	٤.	• • • • • • • • • • • • • • • • • • • •	25.0		25.3	11.8	1.6	ذ.	• • • • • •	13.8	304
03-05	.7	.7	30.9		32.2	13.0		1 + 3		14.3	307
[5-~ \$	د •		33.4		73.4	17.0	. 3	• 3		17.7	305
,9-11	I	•3	32.4		34.7	21.4	1.0	٠ ٠		22.7	30.4
12-14	د .		26.7		20.7	17.3	. 1	. 7		18.7	3 C C
15-17	ذ• ا		22.5		22.9	7.6	3.3	. 7		11.6	306
16-50	1 2.0		20.8		22.5	4.6	1.3	. 3		6.2	307
21-23	.3		26.9		27.2	6.5	2.6	. 3		9.4	309
TOTALS		•1	27.3		27.9	12.4	1.4			14.3	2447

STATION NUMBER: 201131	STAILON NAME:	ML RM AN SI	CLSSR				PERIOD OF RECOR	0: 78-87			
HOUPS (LST) 	RAIN TSTMS E/GR DRIZZLE	FRZING RAIN &/OF DRIZZLE	SNO. E/OR SLEET	HAÌL	# 085 WITH PRECIP	FCC	SMOKE EVOR SLOWING MAZE SNOW	DLST C/OR SAND	2 085 W/CBST TO VISION	TOTAL OBS	••••
cc-cz	3 • i	- 3	26.0	• • • • • • • •	29.1	2.4	2.8	.3	5.5	289	••••
"3-25	3.0		30 • 5		32.6	6.7	1 • 3		8.1	298	
U6-08	3.1		29.4		31.7	13.0	2.0		15.0	293	
32-11	3.4		30 4 2		74.2	10.5	1.4		11.9	295	
17-14	2.7	• 3	26.5		29.2	3.8	1.7		5.5	291	
15-17	3 • 4		18.5		21.5	. 3	. 7		1.0	297	
19-20	_ • 8		23.8		20.2	• 3	. 7		1.0	290	
21-21 1	4 • 4		24.2		23.5	. 7	1 + 3		2.0	298	
TOTALS 1	3 • •	-1	26.1		24.0	4.7	1.5	٥.	6.3	2351	

SESHAL CLIMATOLOGY HRANCH USAFETAC

PERCINTAGE FREQUENCY OF JCCUPRENCE OF WEATHER CUMBITIONS FROM HOURLY OBSERVATIONS

AIR WEATHER SERVICE/MAC

STATION NUMBER: 27113 STATION NAME: MURMINSH USSR

21-23 1

TOTALS |

PE: 100	CF	PECOPD:	78-67
MCNTE:	MA	1	

								MUNIFI MAY		
• • • •	 HOURS 	RAIN TSTMS BZOR DRIZZLE		10 M	+ A I L	t UBS WITH PRECIP	FOG	SMORE E/OR BLOWING AOM STAH	DUST & OHS 6/OR W/CBST 54ND TO VISION	OPS
	prenz f	10.5	• • • • • • • • • • • • • • • • • • • •		• • • • • • •	18.8	2.6	5.9	9.5	304
	L3-55 1	٧.0	14	• • 3		23.5	8.5	3. 9	12.4	307
	:e-ce 1	9	18	9 • 6		20.5	8.5	2 • 0	10.5	306
	19-11-4	عددا	16	. 7		20.6	5 • 6	1.6	1.2	365
	12-14-1	11.0	14	1.4	. 3	20.1	3.9	• 7	4.5	306
	11-17 1	H • 9	1:	6.1		2J.E	. 7	. 7	1.3	303
	18-25 1	5 • ti	1	1 • 3		14.6	. 7		. 7	301

22.5

15.5 .0 23.1 3.8 2.1

11.4

STATION NUMBER: 201130 STATION NAME: MURMANSK USSR

11.4

tu-i

1.6.	100	Of	FECORD:	18-87

306

5.9 2438

MUNTE: JUN

1.3

								F TIF, JUN			
FOURS (LST)	1.2.1M.2 U	RAIN E/OR RI72LE	FPZING RAIN EZOR DRIZZEE	SNO# E/OR SLEET	HAIL	E OBS WITH PRECIP	FOG	SMOKE IACLU GOVI ONS STAR		R DRS W/CLST TO VISION	TOTAL 085
co-na 1	• • • • • • • • • • • •	15		6.1		24.9	2.7	1.0	• • • • • • • • • •	3.7	296
03-15		12.9		7.8	. 3	20.7	6 • 5	3 • 1		9.5	294
16-08		16.9		7 - 1	1.0	24 • 7	7.6	3 • 4		11.2	295
: 2+11		23.1		8 • 8		21.9	2.4	1.7		4 - 1	294
12-14		16.7		7 - 1		23.1	7		. 3	3.1	294
15-17 1	1.	17.7		6 • 1		23.8	1.5			1.0	204
19-25	• 3	15.1		6.4		71.1	. 3			. 3	298
C1-23 1	• ?	10.0		5 • 4		21.5	• 3	1 - 7		1.3	297
TOTILS	• 2	16.4		6.9	• 2	23.0	3.0	1.3	.0	4.3	2362

CLORAL CLIMATOLOGY GRANCH USAFETAC AIR WEATHER SERVICEMMAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM FOURLY OBSERVATIONS

STATION NUMBER: 221130 STATION NAME: MURMANSK USSR

EE5100	C.F	PECORD:	78 - B	7
MONTH:	JU	L		

(FZ1) HGNEZ	1	DRIZZLE	URIZZLE	SNOW E/OR SLEET	FAIL	% UES WITH PRECIP	FOG	_	IOW SAND	W/CBST 10 VILION	280 280
J0-02	· · · · · · · · · · · · · · · · · · ·			••••••	• • • • • • •	18.6	2.9	2.6		5.5	307
?+1:5	i	17.4				17.2	6.5	5.2		11.7	309
€ - r. 8	1	17.9				19.9	8 • 8	¿. ə		11.7	307
u ³=11	1	21.4				21.4	6 • 8	2.0	• 3	9 • 7	3C 8
12-14	1 .	15.7			• 3	16.0	1.3	. 7		2 • 0	376
15-17	1 .	15.3				18.3	• 3			• 3	316
18-20		14.4				14.4	. 7			.7	325
. 1-23	1	3 16.7				16.7	2.0			2 • 6	305
TOTALS	•	17.8			•0	17 • 8	3.7	1.8	٥.		2453

STATION NUMPER: 221135 ST. TION NAME: MUPMANSK USSR

ւնելոն	OF	PECORD:	78-87
MONTH	: 51	rG.	

	151MS	RAIN E/OP DRIZZLE	FRZING RAIN E/OF URIZZLE	SNOW E/OR SLEET	FAIL	# 052 #IIF	FOG	SMOKE EVOR HAZE	2 NOM Reomind	DUST &/OR SAND	1 0PS W/C0ST 10 VI!ION	101AL
£7-62	• :	18.2	• • • • • • • •	•••••	• • • • • • •	18.2	2 . 3	5.3		••••••	7.6	303
. 7-05		19.7				19.7	5 • 3	3.0			9.2	304
€-€6 I		25.5			. 3	25.8	14.4	1.6			16.0	30:
Ja-11 1		22.1				72 • 1	6.8	2.3			9.1	307
12-14		20.3				23 • 3	2.5	. 1		. 3	3.9	306
15-17	. :	19.3				19 • 3	1.0	. 7			1.6	306
18-2G	.;	19.1				19.1	1.0	. 3			1 • 3	303
21-23 1		! : . 6				10.6	1 • 3	1.0			2 • 3	307
TOTALS	. 1	?6•4			• 3	20.4	4.5	1.9		٠.6	6.4	2442

h -----

GLO∃AL CLIMATOLOGY BRANCH US4FET4C AIR ∍EATHER SEPVICE/MAC

FEPCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONVITIONS FROM HOURLY OBSERVATIONS

STA

ATION NUMBER: 201130	STATION NAME:	MURMANSK USSR	PE3100 OF PECORD: 77-66
			MONTH: SEP

						F 119 1 F	31 P			
F OUP S	RAIN TSTMS E/OR DRIZZLL	FRZING SNOW RAIN E/OR	FAIL	1 095 #ITH PRFCIP	FOG	S≃GKE EZOR HAZE	BLOWING SNOW	DUST E/OR SAND	T OBS W/CBST TO VISION	OR2 1014F
67-02	71.4	2 • 7	••••••	34 • C	3.1	3.4	• 3		6.8	292
J3-05	25.7	3.7		24 • 1	6 • 1	1.7			7 • 8	294
06-06	15.6	3.2		21.6	11.9	1.8			13.7	285
19-11	1 20.0	2 • 7		22.4	13.9	2.4			16.3	295
12-14	19.2	3 • 3		21.1	6.5	1 - 1			7.6	275
15-17	1 22.4	3.7		25.5	1 • 7	. 7			2 • 4	294
19-20	23.4	1.4		23.8	. 7	1.6			2.5	281
21-23	1 22.1	2.3	• 3	24 • 7	1.7	2 • 1			4 . 3	299
TOTALS	1 23.8	2.9	٠.	23.4	5.7	2.0	• 5		7.7	2315

STATION NUMPER:	201130	STATION NAME:	MURMANSK USSR	PEP1OD OF

STATION NUMPER: 2	CALAC STATION NAME:	MURMANSK USSR			PEP10D MONTH:	OF RECORD : OCT	: 77-86			
FOURS ((LST)	RAIN ISTMS &/OR DRI7ZLE	FRZING SNOW PAIN E/OR E/OR SLEET DRIZZLE	% OBS HAIL WITH PRFCIP	FOG	S™OKE &/OR ⊬AZE	BLOWING SNOW	DUST &/OR SAND	% 085 W/C85T TO VISION	TOTAL OBS	••
an-a2 1	11.7	16.3	27.0	5.0	1.3		• • • • • •	6.3	300	••
€3-05	13.7	18.3	30.7	6.9	. 7	• 3		7 . 8	306	
, 6-ce 1	13.4	20.1	33.4	7.0				7.0	299	
9-11	13.2	20.1	71.0	10.2	. 3	• 3		10.9	303	
12-14	10.9	14.7	24.6	8.5		. 3		8.9	293	
15-17	13.7	15.3	28.0	5 • 5	1.0	. 3		6.8	307	
12-20 1	11.5	14.3	26 • 2	6.5	1.3			7.5	294	
21-23 1	1444	14 • 1	27 - 1	5.9	• 3	• 3	. 3	6.9	306	
TOTALS	12.0	16.7	20.5	6.9	• 6	•2	•0	7 • 8	2408	L

GLOBAL CLIMATOLOGY BRANCH LSAFETAC AIR WEATHER SFRYICE/MAC

PERCENTAGE FREQUENCY OF OCCUPRENCE OF WEATHER CONDITIONS FROM FOURLY OBSERVATIONS

STATION NUMBER: 201130 STATION NAME: MURMANSK USSR

P	Εb	loo	C.L	REC	OPD:	77-86
	MC			^ v		

							MUNIH:	- N O V			
Fours (LST)	RAIN TSTMS E/UR DRIZZLE	FRZING RAIN 6704 DRIZZLE	SNOW &/OR SLEET	FAIL	% OBS WITH PRECIP	FOG	SHOKE E/OR HAZE	ELOWING SNOW	DUST C/OR SAND	R 08S W/CBS1 TO VISION	TOTAL OBS
20-02	4.1		32.3		?6 • 1	8.6	1.0	1.3		10.7	291
67-05	2.4		31.6	. 3	34 . 4	8 • 6	• 3	. 7	. 3	10.0	291
J6-C8	3 • 4		35.2	• 3	₹9 ₀ 0	6.6		. 7		7 • 2	290
€9-11	1 2.4		34.7		36 • 4	9.5	. 3	. 7		10.5	294
12-14	3.0		31 • 6		34 • 7	11.3	1.4			12.7	291
15-17	2 • 7		29.1		31.4	11.1	3 • C			14.2	296
13-20	3.4	• 3	29.1		32 • 4	8 • 6	. 3	• 7	. 3	10.1	296
21-23	1 2.7		30+6		32.7	9.1	. 3	. 3		9.8	297
TOTALS		•C	31.8	• 1	34 • 6	9 • 2	• à	• 5	• 1	10.7	2346

STATION NUMBER: 221130 STATION NAME: MURMANSK USSR

PERIOD OF RECORD: 77-86 MONTH: DEC

							with the	UEC			
+aurs ((LST)	RAIN ISIMS E/OR DRIZZLE	FRZING RAIM E 6/0R DRIZZLE	SNON E/OR SLEET	FAIL	% OBS WITH PRECIP	FOG	\$™0KE &/0R ⊁A7E	BLOWING Snow	DUST E/OR SAND	% 095 W/CBST 10 VISION	101AL 083
20-02 l	•		36.0	. 3	36.6	12.2	. 3	.7	• • • • • •	13.2	303
C3-C5	•.	3	38.0		76.3	12.0	. 3	1.6		14.5	306
25-08	• i	7	35 • 4		36.0	14 • 1		. 7	. 3	15.2	297
_9-11	1		42.0		42.6	12.5		1.0		13.4	305
12-14	• :	7	31.9		34 • 2	17.8	. 3	1.6		19.7	304
15-17	• •	υ	35.1		30.7	16.6	د .	1.0	. 3	18.2	306
18-25 (. 3	7 .7	37.8		30.5	14.1		• 3	. 3	14.8	304
21-23	1 - 3	3 .3	38.7		39 • 3	13.4	• 3	1.3		14.5	305
TOTALS 1	•6 •3	.1	36 . 8	.0	77.4	14.1	. 2	1.0	•1	15.4	2434

GLOBAL CLIMATOLOGY BHANCH USAFETAC AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCUPRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

STATION NEMBER: 221130 STATION NAME: HURMANSH USSR

PERIOD OF RECORD: 77-87 MONTH: ALL

	+ OURS (LST)	T S TM S	RAIN 6/UR Crizzle	FRZING RAIN E/OH DRIZZLE	SNOW E/OR SLEET	FAIL	NITH PRECIP	FOG	SMOKE E/OR HAZE	BLOWING SNOW	DUST E/OR SAND	* OBS W/CBST TO VISION	101AL OBS
MAL	ALL I	٠	• 1	-1	34.5	. 1	34 . 7	18.7	.6	1.0		20.4	2390
FEP	1	• 1	• 7	•1	29.1	•1	29.8	11.5	• 6	. 9	- 1	13.C	2207
MAR	1		• 5	•1	27.3		27.9	12.4	1.4	. 5		14.3	2447
APE	i		3.2	•1	26.1		29.0	4.7	1.5		• C	6.3	2351
* 4 4	1		10.1		13.3	• 0	23.1	3.8	2 • 1			5.9	2438
Juk	1	• 2	16.4		6.9	• 2	23.0	3 • €	1.3		• 5	4.3	2362
JUL	i	• 2	17.8			• 0	17.8	3.7	1.9		•0	5.5	2453
ALG	1	. 1	23.4			• 3	20 • 4	4.5	1.9		•0	6.4	2442
SEP	i		20.8		2.9	•0	23.4	5.7	2.0	• 0		7.7	2315
OCT	1		12.6		16.7		28 • 5	6.9	• 6	• 2	•0	7,6	2408
NOV	1		3 • 1	•0	31.8	• 1	34 . 6	9.2	. 8	. 5	•1	10.7	2346
DEC	1	٠.:	• 8	•1	36.8	• 0	37.4	14.1	• 2	1.0	•1	15.4	2434
	TOTALS	• 1	8.9	ن.	18.8	• 3	27.5	8 • 2	1.2	. 3	•0	9,8	28593

 PPPPPPPP
 AAAAAA
 QRRRRRR
 TITITITIT
 DPBGFFBBB

 FPPPPPPPP
 AAAAAAAA
 FRRRRRR
 ITITITITIT
 FEBGFBBBBB

 FP
 FF
 AA
 AA
 RP
 TT
 FE
 BB

 FP
 FF
 AA
 AA
 RP
 TT
 FE
 BB

 PPPPPPPPP
 AA
 AA
 AR
 RRRRRR
 TT
 FE
 BB
 FE
 FE
 BB

 PP
 AA
 AA
 AR
 RRRRRR
 TT
 FE
 BB
 FE
 FE
 BB
 FE
 BB
 FE
 BB
 FE
 BB
 FE
 BB
 FE
 FE
 BB
 FE
 FE
 BB
 FE
 FE

.

.

SLE SUPPLEMENTAL SECTION ISLMMARY OF DAY DATAI FOR THESE SUMMARIES.

CCCCCC

BIVARIATE PERCENTAGE PREQUENCY TABULATIONS OF SURFACE WINDS

DATA DERIVED FROM HOURLY DATA.

PRESENTED ARE THE PERCENTAGE FREQUENCY OF WIND DIRECTION TO 16 COMPASS POINTS, CALM AND VARIABLE VERSUS WIND SPEED IN KNOTS IN INCREMENTS OF BEAUFORT CLASSIFICATIONS.

FERCENTAGES ARE SHOWN BY BOTH DIRECTIONS AND SPEED, AND IN ADDITION THE HEAR WIND SPEED IN GIVEN FOR EACH DIRECTION.

DATA PPESENTED BY THE STANDARD 3-HOUR TIME GROUPS BY MONTH, MONTHLY AND ANNUALLY TALL YEARS COMBINEDI..

A SEPARATE ANNUAL TABLE PRESENTS THE SAME BIVARIATE DISTRIBUTIONS WITH IMPOSED CEILING/VISIBILITY LIMITATIONS: WHEN VISIBILITIS EQUAL TO OR GREATER THAN 1/2 MILES, THE CEILINGS ARE 23C TO 1400 FEET AND/OR WHEN THE CEILING IS EQUAL TO OR GREATER THAN 200 FEET, THE VISIBILITIES ARE 1/2 THROUGH 2 1/2 MILES.

A PERCENTAGE VALUE OF ".3" IN THESE TABLES INDICATES ONE OR MORE OCCURRENCES AMOUNTING TO LESS THAN .85%.

GLOBAL CLIMATOLOGY BRANCH USAFETAC AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED FROM HOURLY OBSERVATIONS

PECIOD OF RECORD: 78-87
PONTH: JAN HOURS(LST): DOGG-0200 STATION NUMBER: 221130 STATION NAME: MURMANSK USSR

1					WIF	ND SPEED	IN KNOTS	5					
RECTION DEGREEST	i = 3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	4,+55	GE LE	TLIAL	MEAN WIND
N	•••••	. 3		1.3	• 3							1.7	13.0
NNE		. 1	.7	• 3								1.4	10.0
NE	• 3	• 7										1.0	4.0
ENE !		. 7	• 3	. 3								1.4	7.5
Ł	• 3											. 3	2.0
FSE			• 3									. 3	10.0
SE													
SE		. 7	. 3	. 3								1.4	8.7
s	1.4	8 • 6	17.0	16.7	3 - 1	1.4						48.3	10.7
SSW		7.9	9.5	9.2	2.0	• 3						56.0	10.2
S in		. 7	• 7	1.4	• 3	• 3						3 . 4	12.9
LSW		. 3										. 3	6.0
w	• ?			1.4	1.4	• 3						3.4	15 • 1
waw i			.7	1.0	. 7							2.4	14 • 3
Now			• 3	1.4	. 7							2 • 4	14.3
titia			1.5	. 3	• 3	•3						5.0	14.7
AHIABLE	• • • • • • • • • • • • • • • • • • • •	• • • • • •	• • • • • • • •	• • • • • • • •	• • • • • •	•••••	• • • • • • •	• • • • • • •		• • • • • • •	• • • • • • •		
1	,,,,,,,,,,	//////	,,,,,,,,	11111111	//////	(11)11)	,,,,,,,,	,,,,,,,	,,,,,,,,	////////	,,,,,,,,	1.4	,,,,,,
OTALS	2.4	20.4	31.0	3 3 • 3	8.8	2.7						100.0	10.7

GLOBAL CLIMATCLOGY PRANCH

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED FROM HOUNLY OBSERVATION

PERIOD OF RECORD:

AIR WEATHER SERVICE/MAC

C

STATION NUMBER: 221130 STAT ON NAME: MURMANSK USSR

#IND SPEED IN KNOTS

OIGHECTION | 1-3 4-6 7-10 11-16 17-21 22-27 20-27 70-27 70-27 17-21 22-27 28-33 34-40 IDEGREES! | WIND 1.0 1.0 2.0 15.8 NNE . 7 . 7 . 7 . 3 2.3 6.9 NE . 3 • 3 1.0 6.0 ENE . 7 • 3 1.0 8.7 E . 7 12.3 . 3 7.0 SŁ . 3 . 3 4.0 1.3 8.9 SSE . 7 . 3 2.3 S 1.7 10.3 14.0 16.3 4.0 . 3 48.5 10.5 5 S % 1.0 3.3 10.0 8.6 2.0 . 3 25.2 10.6 S 🗪 . 7 1.0 1.0 . 3 3.7 14.0 h S W 1.5 . 3 . 7 1.7 1.3 . 3 . 7 14.0 CALM 100.0 20 . 3 10.6 10.6

GLOBAL CLIMATOLOGY PRANCH USALLTAC AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED FROM HOURLY OBSERVATIONS

PERIOR OF RECORD:

78-87

STATION NUMBER: 221130 STATION NAME: MURMANSK LSSR

PERIOD OF FECORD: 78-87

MONTH: JAN HOURS (LST): G600-0600

WIND SPEED IN KNOTS

DIRECTION | 1-3 4-6 7-10 11-16 17-21 22-27 28-33 34-40 41-47 48-55 GE 56 TOTAL MEAN
(DEGREES) | IDEGREES! WIND N 13.3 1.0 TINE . 3 . 3 1.0 1.7 10.C 1.0 ΝŁ 7.0 . 7 4.0 ENE . 7 . 3 . : 4.0 Ł . 3 ESE . ? . 3 1.0 4.7 1.0 SE 1.0 5.3 SSE . 3 • 3 1.4 2.1 13.3 s 10.2 4 . 1 10.5 SW 1.7 1.0 4.8 16.6 w 5 w . 7 . 7 • 3 1.7 13.0 . 7 1.4 . 3 . 7 3.1 16.1 1.7 12.3 FAR 2.1 Nh . 7 1.0 A . 7 HINE . 3 . 7 13.0 VARIABLE CALM .7 ///// TOTALS 30.2 3 3 . 7 8.2 100.0 10.5

GLO: AL CLIMATOLOGY BRANCH PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SFEED USAFETAC FROM HOURLY OBSERVATIONS
ATP ACATHER SERVICE/MAC

STATION NUMBER: 20113" STATION NAME: MERMANSK USSR

PERIOD OF RECORD: 78-87

MONTH: JAN HOURS(LST): 0900-1100

1				• • • • • • • • • • • • • • • • • •	wIt	O SPEED	IN KNOTS						
IPECTION Degr <u>e</u> s)	1 - 3	4-6	7-10	1 4- 16	17-21	22-27	28-33	34-4C	41-47	48 - 55	GE 56	TCTAL	ME AN WIND
			•••••	• • • • • • • •	• • • • • •	.3		• • • • • • •			••••••	. 7	14.5
NNE		• 7	. 7		. 3							1.7	9.0
NE I			. 7	• 3	• 3							1.3	12.3
ENE [• 5	• 7										1.9	3.3
٤	• *	. 3										. 7	3.0
ESE													
SE		. 3	• 7									1 • C	A . O
5.5.5		1.9	. 3		.7	• 3						2.3	12.4
s }	. 7	11.0	16.7	14.5	4.3							46.8	10.2
SSW	1 • 2	€•€	9 . C	9. D	1 • 3	• 3						26 . R	9.9
SW		1.5	. 7	1.0	1.7							4.7	12.4
wsw I		• ?	• 7	1.7								2.3	12.0
ei				1.0	1 • 3							2.3	17.4
.N			1.3		• 3							1.7	11.8
N#		• ?	• 3	1.3	•3							2.0	12.5
#Nw		. 7	. 3	1.3	• 3	• 3						3.0	13.3
VARIABLE	•••••	•••••	• • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • •			• • • • • • • •	• • • • • • •	• • • • • • • •	• • • • • • • •	•••••	
CVEA	,,,,,,,,,,	///////	,,,,,,,,	,,,,,,,	//////	,,,,,,,	,,,,,,,	(111111	,,,,,,,	///////	,,,,,,,	1.7	111111
TOTALS	2.7	22.7	31.4	29.1	11.0	1.3						100.0	10.4

GLOBAL CLIMATOLOGY BRANCH USAFLTAC ATR WEATHER SERVICE/MAC

PERCENTAGE FRECUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED FROM HOURLY OBSERVATION?

STATION NUMBER: 221137 STATION NAME: MURMANSK USSR

PERIOD OF LECORD: HONTH: JAN FOURS(LST): 1200-1400 WIND SPEED IN KNOTS 014FC110# | 17-21 22-27 28-33 34-40 TCTAL GE 56 WIND 15.1 Ŋ 1.0 • 3 NINE • 3 • 5 . 3 1.0 7.3 NE 1.5 2.1 7.3 ENE 1.0 1.0 4.0 Ł :.5 1.3 9.7 ESE SE SSE • 3 1.0 . 3 . 7 2.4 6.0 5 . 7 21.7 13.1 10 . 7 2.4 1.7 49.3 10.3 1.0 SSW 5.5 A . 3 7.2 1.0 1.3 S # 1.4 1.7 • 3 . 7 4.1 9.2 . 3 N S W 1. C • 3 . 3 12.9 . 3 . 7 • 7 . 7 3.1 15.3 to Parks 1.4 . 7 2.1 16.3 ly to . 3 . 3 1.7 10.8 FNK . 7 8.0 VALIABLE CALM 2.1 ///// TOTALS 100.0 10.1

GLOJAL CLIMATOLOGY RRANCH USAFLTAC AIR WLATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SUPFACE WIND DIRECTION VERSUS WIND SPEED FROM HOURLY OPSFRYATION'

٠٠٠٠٠٠٠١	• • • • • • • • •				#IN	D SPEED	TH KNOTS						••••••
DEPOSES) DEPOSES)	•						2 R = 3 3					1	ME A N N I N U
<i>i</i> . !							••••••	• • • • • •	• • • • • • • •	• • • • • • • •		2.5	11.5
P. NE		. 6	.,									1.0	5.3
NE .			• ?									1 • 3	6.5
THE !	. :	. ŧ	• 7									1 + 3	5.5
ŧ													
i SE			. 3									.6	5.0
SE													
r SF 1		. '	• 2	. 6								1.3	٥.0
5	2.0	1.4	. C . 1	16.9	1.6	. 5						50.3	10.1
55%	. 4	i, a	8.1	F. A	4 - 7							24.7	9.9
5# I	. 6	1.9	• 3	1.5	.6							4.9	A . 7
h S n		. '		1.€		• 3						1.6	15.0
		. '	1.7	1.€	. 3		• €					3.9	15.3
a Nia			. 3	1.0	. 3							1.5	14.2
Nw I			. 6	. 5	• 3							1.5	13.0
-tite#	. •		1.0	. 5	. 3							2.3	10.7
VIRIARLE I	• • • • • • • • • • • • • • • • • • • •		•••••	•••••	• • • • • • •			• • • • • • •	• • • • • • •			• • • • • • • • •	•••••
ı	,,,,,,,,,,	.,,,,,,	11111111	,,,,,,,,,	,,,,,,,	1111111	,,,,,,,,,	,,,,,,	,,,,,,,,	,,,,,,,,	,,,,,,,,	1.0	111111
TOTALS		13 6	34-1	3 ?• 1	5.6	, ,	. 6					100.0	10.1

TOTAL NEMBER OF ORSERVATIONS: 3UE

DECERT CLIMATOLOGY PRANCH PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED USAFETAGE FROM HOURLY OBSERVATIONS AIR WEATHER SERVICE/MAC

ATICH NUMBER	: 221133	21 WI T OV	NAME:						PETIOD MONTH:	OF PECOR		-87 1): 1860-	2000
DIRECTION COFUREFSI	1-3	4 - 6		11-16	WI!	22-27	IN KNOTS 28-33		41-47	48-55	GE 56	TOTAL	MEAN WIND
	• • • • • • • • •		• • • • • • • •	. 7	. 3	• • • • • • •			• • • • • • • •		••••••	1.7	15.7
'.NC		. 7	. 3	. 7								1.7	17.4
tat.	• 3	1.7	. 1									2.0	6.7
THE !	. 7	1.4	. 3		•							2.4	4.3
+ !	• 5											. 3	2.0
125				. 7								. 7	14.0
31	•												
135				. 3	. 3	. 3						1.0	20.0
5	1.1	10.2	15.6	19.6	2 • 4	1.0	• 3					49.8	10.4
<5.	. 3	5.0	7 - 1	۰.5	2 • 4	• 3						25.4	10.4
S		1 • 7	. 7	1.4	• 3							4.1	8.9
h.S.h.				• ?	. 3	. 3						1.4	14.9
. !				1 • 4	1 • 4	. '						3.4	16.9
hited			.3	1.4	. 3							2.0	13.2
iv			1.0	• 3								1 - 4	10.0
*164			. 7	. 7	.3							1.7	12.6
1 3394196V 				· · · · · · · · · · · · · · · · · · ·								1.7	
TOTALS	3.7							, ,	, , , , , ,			109.0	10.4

GLOBAL CLIMATOLOGY ERANCH USAFETAC AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SUPFACE WIND DIRECTION VERSUS WIND SPEED FROM HOURLY OBSERVATIONS

STATION NUMBER	2: 221130	STATION	NAME:	ME RM AN SK	LSSR				PERIOD MONTH:	JAN 10		-87 11: 2160-	2300
	• • • • • • • • • • • • • • • • • • •	• • • • • • • •	•••••	• • • • • • • • •			IN KNOTS		• • • • • • • •	• • • • • • •	• • • • • • • •	• • • • • • • • •	•••••
OIRECTION (UEGREES)		4 -6	7-10	11-16	17-21	22-27	28-33		41-47	4 F - C 5	GE 56	TCTAL	ME A N W I N D
N	 - 	•••••				• • • • • • • •	•••••	• • • • • • • •				1.3	13.5
NNE	. 3	• 7	1.0		• 3			•				2 • 3	8.1
t.E.		1.0		. 7								1.3	0.8
FNE	! [
ŧ) 												
r SE	! !												
SE	! !												
:51	, [1 • 6	• 3	• *	. 7							2.9	9.6
5	1.7	12.1	17.6	13.7	3 . 3	.7						48.5	9.9
15%	1 1.0	4 . 6	11.1	7.2	3.3							27.0	10.3
Sw	! 	1.3	1.0	1.3	1.6							5 • 2	12.4
h S k) -	• 3		• 7	. 7	• 3						7.0	15.5
•	į	. '		1.€	2.0							3.3	16.4
KNK	1	. 1	. 3	1.0		• 5						2.0	13.5
NW	! 			1.3	. 7							2.5	14.7
N.N.K	r 		. 3	• ?	• 7							1.3	14.0
VARIABLE	, , , , , , , , , , , , , , , , , , , ,			• • • • • • • •	• • • • • • •								•••••
	ļ												
CAL"	1//////////////////////////////////////	////////	//////	(11111111	//////	///////	11111111	///////	11111111	,,,,,,,,	11111111	1.0	111111
101462	2.6	22 • 1	31.9	20.0	13.0	1.3						100.0	10.5

TOTAL WIMBER OF ORSERVATIONS:

GLOBAL CLIMATOLOGY BRANCH PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED FROM HOURLY OBSERVATIONS AIR WLATHER SERVICE/MAC

			•••••				IN KNOTS						
IPECTION DEGPEES)	1 -3	4-5	7-1 C		17-21	22-27	28-33	34-40			GE 56	TC TAL	ME AN WIND
(v .	. 2	. 1	.3		. 4	.1	•••••	• • • • • • •		••••••		1.8	12.9
NNE	• 2	•5	. 5	. 3	. 1							1.6	8.5
NE .	• 2	. 7	. 4	• 1	• 0							1.4	7.2
ENE	• 2	. 7	• 1	. 1								1.1	5 . 2
. !	• 2	. 2	. 1									• 5	4.4
ESE	• 1	• 1	•?	. 1								. 4	7.6
\$F		. 2	. 1									• 3	6.3
1SE	• .	. 7	. 4	• 5	• 2	• 1						2.3	10.4
5	1.4	10.5	16.9	15.7	3 • 1	•1	• 3					48.2	10.
W2.2	٠ ٩	5.4	9.4	P. 7	1.9	٠ ۲						26.5	10.
5	• 1	1 • 3	. 8	1 • C	1.0	• 1						4.4	11.0
wSh	• 1	• 3	• 2	. 7	• 3	•2						1.7	13.1
	• 2	• 1	. 4	1. 3	1 • 1	٠ ۲	. 1					3 . 3	16.1
between 1		• 1	• 5	1.0	• 3	•1						2.0	13.
74 m	• -	. 1	. 3	• 5	• 3							1.6	12.
titeW	• "	. '	.6	• 5	• 4	•1						1.9	12.
VARIABLE	• • • • • • • • •	•••••		•••••	• • • • • • •	•••••	• • • • • • •	• • • • • •		•••••	•••••		• • • • •
CAL"	11111111	/////////	11111111	11111111	////////	1111111	,,,,,,,,,	,,,,,,	11111111	11111111	11111111	1.3	11111

GLOSAL CLIMATOLOGY BRANCH USAFETAC AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED FROM HOURLY OPSERVATIONS

PERIOD OF RECORD: 78-87 STATION NUMBER: 221133 STATION NAME: MURMANSK USSR

					·········		IN KNOTS			• • • • • • • •	••••		
IPECTION DEGR <u>e</u> est	1-4	4-0	7-10	11-16	17-21	22-27	28-33	34-4C	41-47	48-55	GE 56	TCTAL 3	ME AN WIND
N !	. 4		.4	•••••	.4		•••••	• • • • • • •		••••••		1.1	1c.3
NNE !				. 4								. 4	14.0
NE		. 4		. 4								. 7	9.0
FNE !		. 7			. 4							1.1	9.0
Ł !	. 4	. 4	. 7	. 4								1.9	7.2
r S E													
SE .	. 4			. 4								. 7	8.0
SSE		1.1	1.1	. 7								3.0	8.3
5		7 • 4	13.C	15.6	3.7	.4						40.5	10.9
556	. 4	4.5	9.7	11.2	1.9	. 4						27.9	10.9
Sw [1.9	. 7	1.5	.7	. 4						5 • 2	11.2
h 5 h				. 7	. 4							1.1	15.0
. !				1.9	2 • 2							4 • 1	16.4
KNW			1.1	2. €	1.5	. 4						5.9	13.9
19 86		. 4	. 7	. 7	. 4			. 4				2.6	14.3
nnu			. 7	.7	. 7							2.2	14.0
VARIABLE	• • • • • • • • • • • • • • • • • • • •		•••••		• • • • • •	• • • • • • • • •	,	• • • • • •	• • • • • • • •	• • • • • • •	• • • • • • •	•••••	
CALM L	(,,,,,,,,,	,,,,,,,	,,,,,,,	11111111	,,,,,,,	,,,,,,,	,,,,,,,,	1111111	///////	///////	11111111	1.5	111111
TOTALS 1	1.5	16 • 7	28.3	3.7. C	12.3	1.5		. 4				100.0	11.2

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND CIRECTION VERSUS WIND SPEED FROM HOURLY OBSERVATIONS GLOBAL CLIMATOLOGY BRANCH USAFETAC AIR WFATHER SERVICE/MAC

STATION NUMBER: 221137 STATION NAME: MURMANSK USSR PERIOD OF FECORD: 79-87

MONTH: FEE HOURS(LST): 0300-0500

TEFCILON	1 - 3	4 -6	7-10	11-16			IN KNOTS 28-33		41-47	41-55	GE 56	TCTAL	MEAN
(DEGREES)				11-10							0: 30	3	WIND
[4]	, 4	. 4		1.1	.4				••••	••••	• • • • • • •	2.2	10.8
NE	. 4	. 4	. 4									1.1	4.7
NE I	. 4		• 7									1.1	7.3
ENE j		. 7	. 4	. 4								1.4	7.5
E İ		. 4			.4							. 7	10.5
FSE													
i te			• 4									. 4	10.0
. 26			. 4	. 4								• 7	12.0
s i	1 • 8	2 • 2	16.2	14.4	4 • 3							39.9	11.0
ssw i	. 7	٠,4	14.4	15.8	2.5							34.7	10.2
S 4	. 4			1 • 1	1 • 1							2 • 5	14.4
¥5₩ (1 1	. 7		. 4	1 - 1	. 4	.4						2.9	12.8
• !		. 4	. 4	1.4	1.4	• 4						4.0	15.4
a heid 			. 4	2 • 5	. 4	• 7						4.9	15.4
N.K.		. 4	. 4	1.1	• 7		. 4					2.0	14.4
NNA I			. 4	1.1								1.4	13.0
VARIABLE	• • • • • • • • •		•••••	• • • • • • • • • • • • • • • • • • • •	• • • • • • •	• • • • • •		• • • • • • •		• • • • • • •	• • • • • • •	• • • • • • • •	••••••
CALM !	,,,,,,,,,,	,,,,,,	,,,,,,,	11111111	,,,,,,,	///////	11111111	//////	///////	///////	,,,,,,,	. 7	111111
TOTALS !	4.7	11.5	34.5	35.3	11.5	1.4	. 4					100.0	11.1

GLUBAL CLIMATOLOGY BRANCH USAFETAC AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND CIRECTION VERSUS WIND SPEED FROM HOURLY OBSERVATIONS

STATION NUMBER	2 - 221130	5 1 4 1 1 0 4	NAMF.	MI DM AN SK	LSSP				pf v t nti	OF RECOR	D: 78	-87	
			•						MONTE:	FEB	FOURSILS	11: 0600-	
	1				⊌ I	ND SPEED	IN KNOTS						
DIRECTION (DEUP:ES)	Ì	4 -6	7-10	11-16			28+33					TCTAL 3	ME AN WIND
N.		. 4	******	1.1	• • • • • • •	******		• • • • • •			•••••	1.5	12.5
NNE	i 1			. 4								. 4	12.0
NE	·	. 4	. 4	• 7								1.5	10.5
FNE] .4 		, 4									. 7	6.0
£	.4	. 4	.7									1.5	5.5
ESE	i J												
\$1.	! !	. 4	• 4									. 7	6.0
, ?E	. 4 I	. 7	1.1	. 4	. 4							2.9	8.9
5	. 7	7.4	14.0	17.3	3.7	. 4						43.4	11.0
5 S W		2 • 6	11.4	11.4	1.1							26.9	10.9
S₩	.4 	. 7	. 7	. 7	. 7							3.3	10.0
₩ S W	. 4 1	• 7	. 4	. 4	. 7	.4						2.9	11+4
b.				3. 3	1.1	• 7						5 • 1	16.5
Wife pl] •		. 7	1. R	. 4							2.9	13.1
NW	į		. 4	1.5	. 4		. 4					2.5	15.7
NNV	1	• 4	. 4	1.1								1.8	11.6
VARIABLE		•••••	•••••	• • • • • • • • •	• • • • • •	•••••		• • • • • •	• • • • • • • •	• • • • • • • •	• • • • • • •	• • • • • • • • •	•••••
CALM	! !////////	11111111	1111111	,,,,,,,,	,,,,,,	,,,,,,,,	,,,,,,,,	/////	,,,,,,,,	,,,,,,,,	,,,,,,,,	1.8	111111
TOTALS	 7.9	14.7	30.9	4 6 • 1	8 • 5	1.5	. 4					100.0	11.0
	•												

GLOWAL CLIMATOLOGY BRANCH PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SFEED USAFETAC FROM HOURLY OBSERVATIONS

STATION NUMBER	P: 221130	STATION		-					MONTH:		HOURSILS	11: 0900-	
DIRECTION DEGREES	†	4-6	7-13	11-16	#IN 17-21	22-27	IN KNOTS 28-33	34-4C	41-47		GE 56	TOTAL	MA 3M CNIW
۸ ا			•••••	. 4	. 4	.4	•••••	•••••	•••••			1.1	20.7
NNE	.4			. 4								. 7	7.0
NΕ		. 4	. 7									1.1	7.3
ENE			.4									. 4	10.0
E	. 4		. 7	. 4								1.5	8.5
156	. 4	. 4										. 7	3.0
SE I		1 • 1										1.1	4.7
5.5€		. 7	. 4	1.1								2 • 2	10.0
S	. 7	5 - 1	15.4	17.6	4.4	.7						44.1	11.3
SSW		1.2	12.1	11.4	1.8							27.6	10.8
S w	<u> </u>	. 7	. 7	. 7	. 4							2.6	10.4
VSW I			. 4		. 4	•4						1 - 1	18.0
-			1.1	1.5	2.2	.4		. 4				5.5	16.9
h feh		. 4	. 4	1.5	1.5							3.7	14.4
Nw		. 4	. 7	1.1	. 4							2 • 6	12.4
NNH	. 4		. 7	. 7		•4						2.2	13.2
VARIABLE !	· • • • • • • • • • • • • • • • • • • •	• • • • • • •		••••	• • • • • • •	•••••	••••••	• • • • • •	• • • • • • •	•••••	• • • • • • •	• • • • • • • • •	•••••
CVFA	111111111111111111111111111111111111111	///////	///////	11111111	,,,,,,,	//////	,,,,,,,,	,,,,,,	,,,,,,,	///////	,,,,,,,	1.8	/////
TOTALS	1.2			36.8		2.2		.4				100.0	11+3

GLOBAL CLIMATOLOGY BRANCH PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SFEED LSAFETAC FROM POUNLY OBSERVATIONS
AIR WEATHER SERVICE/MAC

STATION NUMBER: 271130 STATION NAME: MURMANSK USSR

PERIOD OF PECOPD: 78-87
HONTH: FEE HOURS(LST): 1200-1400

				• • • • • • • •	n I !	ND SPEED	IN KNOT	 S		• • • • • • •	• • • • • • • •	• • • • • • • •	••••••
DIFECTION (4 -6	7-10	11-16	17-21	22-27	29-33	34-40	41-47	48-55	GE 56	TCTAL 2	MIND
N	. 4	. 4	.4	. 4			• • • • • • • •		*******	•••••	• • • • • • • •	1.4	7.0
NNE		. 7	. 4									1.1	6.0
ΝĒ		. 7		. 4								1.1	7.3
ENE													
£			1.4									1.4	9.0
I SE													
SF	. 4	. 7	. 4									1.4	5.0
5.5.6	, 4	1.1		. 4								1.8	6.4
s	. 7	5.0	13.€	16.8	2.9	.4	. 4					39.6	11.5
5 S a/	. 4	5 • 7	10.7	17.1	4.3	. 4	-					33.6	11.4
SW		. 7	. 4	1.8	. 7							3.6	12.8
¥S₩				. 4	1.1							1.4	18 • 3
4		. 4		7.5	2.1	.4						5.4	15.4
h. Ne hil			. 7	. 7	. 7							2.1	14 + 3
NW			. 4	1 • 4	.4							2.1	14.2
N New		. 4	. 4	1.1	1.1							2.9	13.9
VARIABLE	, , , , , , , , , , , , , , , , , , , ,		•••••	•••••	• • • • • •	• • • • • • • •		• • • • • • •	• • • • • • • •	• • • • • • • •	• • • • • • •		••••••
		,,,,,,,,	,,,,,,,,,		1111111	,,,,,,,,	,,,,,,,	,,,,,,,,		////////	,,,,,,,,	1.1	111111
TOTALS	1	15 • 7	28.6	37.9	13.2							100.0	11.5

GLOBAL CLIMATOLOGY PRANCH USAFETAC AIR WEATHER SERVICE/MAC PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND STRECTION VERSUS WIND SPEED FROM MOUNLY ORSERVATIONS

STATION NUMBER: 221130 STATION NAME: MURMANSK USSR PERIOD OF FECORD: FERTURU OF FECURU: 78-87

MONTH: FEE HOURS(LST): 1500-1700

| WIND SPEED IN KNOIS
| DIRECTION | 1-3 4-6 7-10 11-16 17-21 22-27 28-33 34-40 41-47 48-55 GE 56 TOTAL MEAN
(DEGREES) | ty 10.3 . 4 . 7 NNE . 4 . 4 13.0 . 7 ΝE 6.0 ENE . 4 10.0 ٤ . 4 . 7 1.4 10.3 £SE . 4 4.0 SE . 7 5.0 SSE P . 1 5 9 . 1 11.0 9. 1 11.1 554 5.0 5.1 Si . 7 . 7 . 7 2.2 8.7 W 5 W 1.5 17.4 1.4 1.8 4.7 15.2 KNa 1.1 1.0 1.1 . 4 13.3 NW 1.1 . 7 VARIABLE I CALM 1.4 ///// TOTALS 31.2 100.0

GLOBAL CLIMATOLOGY HEAVEH USAFLTAC AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED FROM POLICY OBSERVATIONS

STATION NUMBER: 221130 STATION NAME: MURMANSK USSR PERIOD OF RECORD: 78-97 MONTH: FEE HOURS (LST): 1800-2000 WIND SPEED IN KNOTS 17-21 22-27 28-53 34-40 DIRECTION ! 41-47 48-55 GE 56 TCTAL 4 -1. 7-10 11-16 MEAN (DEGREES) | WIND N 10.5 MNE 1.1 5.3 . 7 . 4 . 4 1+E . 4 6.0 ENE . 4 . 4 . 7 9.0 Ł . 7 . 4 1.1 . 7 2.9 7.5 E S E . 7 10.0 . 4 4.0 . 4 SL SSE . 4 1.5 . 7 2.9 11.1 37.6 10.9 \$ 7.3 9.5 15.7 3.6 . 4 1.1 11.4 29.9 SSW 8.4 10.6 3,6 . 7 1.1 5.5 8.5 S۷ 2.2 1.1 . 4 3.6 . 7 15.3 WSW . 4 1.1 2.2 . 4 1.5 . 7 5.5 16.2 LNH 1.5 1.5 3.3 13.4 . 7 1 - 1 . 4 . 7 3.3 13.9 A N W 1.1 1.1 1.1 . 4 3.6 15.6 VARIABLE CFIM 100.0 12.0 11.4

GLUBAL CLIMATOLOGY OKANCH USAFETAC AIR WEATHER SERVICE/MAC

PERCENTAGE FREQLENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SFEED FROM HOURLY OPSERVATIONS

TION NUMBER:	271130	STATION	NAME:						MONTH:		HOURS (LS	-87 1): 2100-	2300
(SZEHECTION	1-3	ų -E	7-16	11-16	#I! 17-21	ND SPEED 22-27	IN KNOTS 28-33	34~40	41-47		GE 56	TCTAL	ME AN
N Ì	. 4	. 4	1.1	• • • • • • • • •	.7	• • • • • • •		• • • • • • •		• • • • • • • • •		2.5	9.1
INE]		. 4	. 4									. 7	7.0
NE				. 4								. 4	12.0
ENE	. 4	. 4	. 4	. 4								1.4	7.0
E		1 - 1										1 - 1	4.0
FSE		. 4		. 4								. 7	0.0
sr		. 7	. 4									1.1	5 . 3
SSE		• 7	1 - 1	1.1	,							2.9	9.3
s		7.2	13.0	14.8	4.0	1.1						40.1	11.0
SS#		4 . 7	9.7	9.7	2.2							26.4	10.7
sw !	. 4	. 4	2.5	1.8	. 4	. 4						5 . P	11.5
wsw	. 4			1.4								1.8	12.4
. [. 7	1.1	1.4	. 4						3.6	15.7
LNL			1.1	2.5	.4	. 7						4.7	14.8
N# 1			. 4	1.1	. 4	1.1						2 . 9	18.0
NNW		• 7	. 4	1.4	. 4							2.9	12.1
VARIABLE	• • • • • • • • • • • • • • • • • • • •	•••••	•••••	• • • • • • • • •	• • • • • •	• • • • • • •		•••••			• • • • • • •	• • • • • • • • •	
CALM /	11111111	,,,,,,,	//////	,,,,,,,,	,,,,,,,	,,,,,,,	,,,,,,,,	,,,,,,,	///////	,,,,,,,	,,,,,,,	1.1	111111
TOTALS	1 • 4	17.2	31.C	36.1	9.7	3.6						100.0	11.3

GLUBAL CLIMATOLOGY BRANCH USAFETAC AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED FROM HOURLY OBSERVATIONS.

STATION NUMBER	R: 221137	AOITATZ	NAME:						MONTH:	_	+OURS ILS	-87 T): AL	L
DIRECTION (DEGREES)		4 - 6	7-10	11-16	win	D SPEED	TN KNOTS 28-33	,		48-55	GE 56	TOTAL	MEAN WIND
N	.2	• 3	. 3	. 4	• 3	.0		• • • • • • •	• • • • • • • •		•••••	1.5	11.0
NNF	.2	. 2	• 2	• 2								. 8	7.5
NF		. 3	• 3	. 2								. 9	e • 2
FNE		. 2	• 2	• 1	• 3							. 8	7.9
£		. 4	. 7	. ?	. 1							1.5	7.7
ESE		• 2		. 1								. 3	6.6
SE	! .:	. 5	• 2	• 0								. 8	5.7
SSE	.1	. 8	. 7	. 6	• 1							2.4	9.1
3	.7	6.5	13.5	15.7	4.0	•5	. 3					4U.9	11.1
SSW	.4	4.6	10.7	15.6	2.8	•2						29.5	10-9
S *	.,	. 9	. 7	1.2	• 5	•1						3.6	11.5
wsw	.2	• 1	• 2	. 9	• 5	• 2						2.5	14.6
H	.3	. 2	. 4	1.9	1.7	. 4	. 3	• 0	•			4.7	16.0
1. N.W	1	• ?	. 7	i. 9	. 7	.3						3.9	14.1
N w	!	• 2	• °.	1.1	. 5	. •2	. 1	• 11	ו			2.6	14.6
f. N. w	.n	• ?	• 5	1.0	• 5	•1						7.4	13.8
	! • • • • • • • • • • • • • • • • • • •					•••••							
VARIABLE	ŀ											
	<i> </i>							,,,,,,,	11111111	11111111	,,,,,,,		/////
TOTALS	2.5	15.7	29.8	36.4	12.7	2.7	• 5	- 1				100.0	11+3

GLOBAL CLIMATOLOGY PRANCH USAFETAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED FROM HOURLY OBSERVATIONS

PERIOD OF PECCAD:

78-87

ATH LEATHER SERVICEMAC

STATION NUMBER: 221133 STATION NAME: MURMANSK USSR

MONTH: MAR HOURS (LST): 0000-0200 DIRECTION | 1-7 4-6 7-10 11-16 17-21 22-27 28-33 34-40 41-47 48-55 GE 56 CDEGREES) | ı WIND 7.9 • 3 1. N E :•^ . 7 . 3 3.0 6.2 2.6 5.0 NE . . 3 • 3 1.0 TNE . : 4 . 7 . : • 3 ٤ 1.0 2.3 ē .6 1.0 . 3 ٠, ۲ 2 . 7 FILE . : 1.3 4.5 51. . ! . 7 • 3 . 51 . 1 . 7 1. 3 • 3 3.0 10.3 1 . 7 11.5 • 3 41.3 9.4 5.5% . . 7 . ! ۲, ۱ 1.7 • 3 23.4 9.8 8.6 . 7 . 7 . 7 1.3 1.0 4.3 5. 11.0 . : . 3 • 3 WSW . 7 1.7 13.2 . 7 . 3 • 3 • 3 1.7 15.6 . 7 1.3 . 3 N. G. W • 3 2.6 11.6 *** • 7 1.0 . 7 • 3 3.0 10 • 3 NNW VARIABLE CALM 1.3 ///// TOTALS 100.0 9.3

GEOBAL CLIMATOLOGY BRANCH USAFETAC AIR WEATHER SERVICE/MAC

PERCENTAGE FREQLENCY OF OCCURRENCE OF SURFACE WIND LIRECTION VERSUS WIND SPEED FROM MOURLY OBSERVATIONS

STATION NUMPER: 221130 STATION NAME: MURMANSK USSP

FEP106 OF PECOPD: #IND SPEED IN KNOTS

OIGECTION | 1-3 4-6 7-43 11-16 17-21 22-27 2P-33 34-40 41-47 49-55 GE 56 TETAL MEAN RIND IDEGREES) ! 7.8 14 . 3 4.6 1. ; • 3 1.0 3.9 4.4 7 NNE . , ٠ ۲ 1.6 8.8 N.E . 3 . 7 ENE • 3 1.0 6.0 1.3 . 7 . 3 • 3 2.3 R . 7 r S r • ! . 3 1.3 5.5 • 3 1.0 €.7 SE . 3 558 • 3 1.0 . 7 1.6 . 3 3.9 9.0 8. ? 3.3 5 2.6 16.0 1.5 24.2 9.4 SSW 4.9 • 3 9.8 1.3 . 3 1.0 1.0 . 7 3.6 10.5 5 # . 7 . , 1.0 12.2 **L** S **W** . 3 . 3 2.0 . 3 . 7 . 7 • 3 2.0 16.2 VAW ٠, ١ . 7 1.0 2.0 11.7 li k . 7 . 3 . 3 . 3 10.5 N. fa Se • 3 VERTABLE ! CALM 1.0 ////// 100.0 9.1

GLUBAL CLIMATOLOGY RPANCH USAFETAC :

STATION NUMBER: 221130 STATION NAME: MURHANSK USSR

PEPCENTAGE FRECLENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED FROM MOURLY OBSERVATIONS

ATR WEATHER SERVICE/MAC

PERIOL OF RECORD: 78-87
MONTH: MAR HOURS(LST): 0600-0600 WIND SPEED IN MHOTS

UIDECTION | 1-3 4-6 7-16 11-16 17-21 22-27 20-33 34-40 41-47 40-55 GE 56 TOTAL MEAN WIND IDEGPEEST 1 .2 3.7 .3 .7 4.6 6.3 1.7 1.5 4.9 NNE 1.0 3.6 . 3 1.6 6.4 NE 2.3 E I+E . 7 . 7 • 3 . 7 6.6 2.3 ٥.٩ €. . 7 . 7 . 7 • 3 . : . 7 5.0 ESE . , , , 56 . 7 1.0 ذ ٠ ٠, . . 9.0 . 7 1.3 SSE 5 1 . 6 7.6 13.5 11.5 2.0 36.2 9.0 S S * 13.2 r, . 9 2.0 32.2 я.9 . 7 • 3 • 3 3.7 P . 3 . 7 1.3 8.5 . 3 • 3 4 S 1 . 3 2.3 11.7 h 1.7 . 7 . ? 3.2 **VNW** . 3 2.0 . 3 12.3 . 7 . 3 3.0 1.3 10.6 N. • 3 1 • n • 3 1.3 9.0 t. is w

. 7

4.9

.7 //////

8.9

100.0

TOTAL NUMBER OF OPSERVATIONS:

31.0

24.7

VARIABLE CALM

TOTALS

GLOBAL CLIMATOLOGY BRANCH PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED USAFETAC FROM HOURLY OBSERVATIONS AIR WEATHER SERVICE/MAC

PERIOD OF RECORD: 78-87 STATION NUMBER: 221130 STATION NAME: MURMANSK USSR

									MONTH:	MAP	HOURSILS	11: 0930-	1100
UIRECTION (1-3	4 ~£.	7-13	11-16	WIN 17-21		IN KNOTS 25-33	34-46	41-47	44-55	GE 56	TOTAL	ME AN WIND
									<i></i>				• • • • • • •
N	• !	. 7		. !								1.3	6.0
TIME		1.7	• 3	. 3	• 3							2.3	8.4
M		1.3	• ?									1.6	6.4
F NE	• ?	7.3	1.7	. 7								4.6	7.1
. !	. 1	.7	. 7	. 7								2.3	7.1
E 2 E													
SF				• 2								. 3	12.0
SSE		. 7	. 3	1.3								2.3	10.3
- 5	2.0	12.5	17.0	17.7	2.6							44.8	٠.6
rsw [1	7 . ?	16.1	6.3	1.6							26.1	9.1
5 W .		• !	1 • C	1.0	. 7							2.9	12.0
5		• 3										, ?	6.0
	. 7		• 3	. 7	. 3	• 3						2.0	13.7
20.00		. ?	• *	7.7		. 3						2.9	13.9
i		• ?	• 3	. 3								1.3	10.0
- Chin	• ;	2.5		1. U								3.3	7,4
VERTABLE	• • • • • • • •		• • • • • • • •	• • • • • • • • • • • • • • • • • • • •		•••••	•••••	• • • • • • •	• • • • • • •	• • • • • • • •	• • • • • • •	• • • • • • • • •	•••••
CVEM [(((((()))	1/////	(,,,,,,,	11111111	,,,,,,,	1111111	,,,,,,,,,	//////	,,,,,,,	,,,,,,,	,,,,,,,	2.0	111111
TOTALS !	4.9	21.3	32.0	21.5	5.6	.7						100.0	9.3

GLOCAL CLIMATOLOGY BRANCH PEPCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SFEED USAFETAC
AIR WEATHER SEPVICE/MAC

PEPIDD (F RECORD: 78-87 MONTH: MAP +OURS(LST): 1200-1400 STATION NUMPER: 221130 STATION NAME: MURMANSK USSR

	••••••	• • • • • • •	•••••	• • • • • • •			IN KNCTS	• • • • • • •				• • • • • • • • •	•••••
DIRECTION (DEGREES)	1 -3	4-6	7-10		17-21	22-27	28-33	34-46	41-47	48-55	GE 56	TCTAL 2	ME A N WIND
N I	. 3	. 7	******	. 7	. 3	• • • • • • • •	•••••	• • • • • •	• • • • • • •	• • • • • • •	• • • • • • • •	2.0	8.8
t/NE 1		1.3	. 3	. 3								2.0	6.3
NF I		1.7	1.3	. 3								2.7	8.3
E No.C		• 7	1 • 3									1.7	6 • O
Ł		. 7	• 7	. 7								2.0	9.3
rse		. ,		• 3								. 7	9.0
sc	• 5	• 7	• 3									1.3	5.0
:sc	. 3	:.0	1.0	1.0								3 . 3	8.4
5	2 • 3	19.7	13.C	12.7	3.3							43.1	9.9
≤ S w	1.7	7.4	6 • 6	8.7	.7	. 3						24.7	9.2
Sw		. 7	2.3	1.7		• 3						5.0	11.4
h S m	• 3			. 7								1.0	9.3
				. 7	. 7							1 . 3	16.0
#Nw		.,		1.5	. 7	. 3						2 • 3	15.6
to h	• *	• 3	. 7	• 7								2.0	ë • Q
10 N.W	. 7	1.7		• 7	• 3							2.7	8.4
VARIABLE	' 			• • • • • • • • •			• • • • • • • •	• • • • • • •	• • • • • • •			• • • • • • • •	
•		.,,,,,,,	,,,,,,,,		7111111	,,,,,,,,	,,,,,,,,,	1111114	,,,,,,,,	,,,,,,,,	,,,,,,,,	2.0	111111
TOTALS	6 • 4	26.4	27.1	31.1	6.0	1.0					.,	100.0	9.4
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	6.4												
	• • • • • • • • • •	• • • • • • •	•••••	• • • • • • • •	• • • • • • •	• • • • • • • •	• • • • • • • • •	• • • • • • •			• • • • • • • •		

ULOGAL CLIMATOLOGY BRANCH PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED USAFETAC FROM HOURLY OBSERVATIONS

STATION NUMPER	R: 201130	STATION	NAME:	ML RM AN SK	USSR				PERIOD MONTE:	OF RECOR	D: 78- POURS(LST		1700
	• • • • • • • • • • • • • • • • • • •	•••••	• • • • • • •				IN KNOTS		• • • • • • • • • • • • • • • • • • • •				•••••
DIMECTION IDEGREESI		4-6	7-1C		17-21	22-27	28-33	34+4C		49-55	GE 56	TCTAL 1	ME AN Wind
٨	· · · · · · · · · · · · · · · · · · ·	2.3		1.0	• • • • • • • • • • • • • • • • • • • •	••••••		• • • • • •	• • • • • • •	• • • • • • •	•••••	4.3	7.9
PiteE	† 	1.3	1.0									2.6	7.5
trE	į												
		1.7	1.6									2.3	7.0
! NE	 	1 • 7	1.3									2.6	6.9
٤	i i	• 7	1.3	. 7								2.6	8.5
ESE	į	1.3										1.3	5.0
SE	İ	• ?		• 3								. 7	8.0
5.5 E	• 5	2.0	1.6	1.3								5 • 2	7 . A
S	1.7	7 • B	8.2	12.9	3.9	. 3						36.4	10.5
< 5 h	1.5	4.6	5.6	4.3	3.6							19.0	10.4
SW	! !	4.5	1.3	4.9	. 7							8.9	11.4
# \$ #		. 7	1.?	1.2								3.3	10.4
w	!	. 7	. 3	1.3	.7	•?						3 • G	13.9
ដូចម			• 3	1.0	• 7	. 3						2.3	16.1
Pe id	• 7	. 3	. ?	1.3								2.3	10.3
ชกส		1.5	• 3	. 7	• 3							2.3	9.6
	· • • • • • • • • • • • • • • • • • • •		• • • • • • •			· • • • • • • • • • • • • • • • • • • •							•••••
SIEAIAAN													
CVEN	<i> </i>	////////	1111111	111111111	,,,,,,,	11111111	'''''	//////	///////	,,,,,,,	///////	1.3	111111
TOTALS	3.7	29.2	24.3	3 J. P	10.2	1.7						100.0	10.0

AIR WEATHER SERVICE/MAC

GLUBAL CLIMATOLOGY BRANCH PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED USAFETAC FROM HOURLY OBSERVATION!

STATION NUMBER: 221130 STATION NAME: MERMANSK USSR

PERIOD OF RECORD: 78-87 MONTH: MAR HOURS (LST): 1800-2000

	• • • • • • • • • • • • • • • • • • • •	•••••	• • • • • • •	• • • • • • •		D SPEED	IN KNOTS	• • • • • • •	• • • • • • • •	• • • • • • •	• • • • • • •	• • • • • • • • •	•••••
DIRECTION IDECREESE	1-3	4-6	7-1C		17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TCTAL 1	MEAN Winu
N .	• • • • • • • • • • • • • • • • • • • •	1.6	1.0	1.3	• 3	• • • • • • • •		• • • • • • •	••••••	• • • • • • • •	• • • • • • •	4.2	9.6
NNE	• 1	1.0	• 3	• 3								2.0	6.7
NE !		. •€	• 3									1.3	6.5
ENE !		2.0	1.6	• 3								5.7	6.8
į į	1.5	1.6	1.3	. 7								4.6	6.6
ESE	• 3	1.0	. 7									2.9	5.7
SF		4.3	.7									1.3	8.0
SSF	1.0	2.0	1.6	1.7								5.5	7.1
s	. 7	b • 5	6 • 8	12.7	2.6	. 7						33.9	10.6
rs.₄	1.0	4.7	4.2	7.5	1.3	• 3	. 3					19.5	10.7
S#	. 3	1 • 3	2 • 3	2.0	. 7							6.5	10.3
h S a	• •	:•°	• 3	1.3								2 • 9	5.1
• !	• !	• ?	.7	. 7	1,3							3 • 3	13.0
n feel			.3	1.0	. 7							2.7	14.0
NW	, ,	• 7	• 7	1. 7	. 3							2 • 9	10.1
N/ww 3		1.6	• *	1.3								3.3	P .8
V/RIABLE	• • • • • • • • • • • • • • • • • • • •	•••••	• • • • • • • •	••••	• • • • • • •	• • • • • • • •		• • • • • • •	• • • • • • • •		• • • • • • • •		•••••
CAL"	,,,,,,,,,	,,,,,,,	////////	11111111	111111	,,,,,,,	///////	1111111	11111111	///////	,,,,,,,	1.3	111111
TOTALS	5 • °	25 • 7	25.1	3 €. 9	7.2	1.3	. 3					100.0	9.7

GLC3AL CLIMATOLOGY BRANCH USAFETAC AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED FROM MOURLY OBSERVATIONS

PERIOD OF RECORD: 78-87 MCNTH: MAR HOURS(LST): 2100-2300 STATION NUMBER: 221130 STATION NAME: MURHANSK USSR

IRLCTION Deurzes)	1 = 3	4	7-10	11-16	17-21	22-21	IN MNOTS	34-40	41-47	48-55	GE 56	TOTAL	ME AN
h [. 3	1.3	.7	1.3	• • • • • • •	• • • • • • • •	. 3	•••••		••••••		3.9	10.1
MNE]		1.3		. 7								2.0	7 . 3
NE J	. 3	3 - 3	• ?		. 3							4.2	6.3
ENE !	• 7	. 7	. 3									1.6	4.0
L !		1.3	. 3	1.0								2.6	8 . A
555	. 3	. 3	.?									1.0	5.3
SE !		1.0	• 3									1.3	6.5
150	• ?	2.5	1.0	1.0	. 3							4.6	8.4
5	1.7	4.2	12.7	10.5	3 . 3	1.0	• 3					36.9	10.5
SSW	1+3	9 . 2	7.5	4.9	. 7	. 3						22.9	₽
SW !	• 3	. 7	. 7	1 • 6	1.3							4.6	12.6
พรพ			. 3	• 3								. 7	11.0
. !	• !	. 7		. 7	1.2	. 3						2.9	12.9
194	. 7	. ,	. 7	. 7	. 3							2.6	9.1
NA I		. 7	• 2	2. ?								2.9	11.8
NN#	• ?	. 7	• 3	. 7	. 3							2.3	9 • 3
VARIABLE 1	• • • • • • • • • • • • • • • • • • • •	•••••	• • • • • • • •	•••••	• • • • • • •	••••••	• • • • • • • •	• • • • • • •	• • • • • • • •	• • • • • • •	•••••	• • • • • • • •	•••••
CALM	,,,,,,,,,,	,,,,,,,	1111111	11111111	1111111	,,,,,,,,	,,,,,,,,	,,,,,,	,,,,,,,	,,,,,,,	,,,,,,,	2.9	/////
TCTALS	5.7	36 • 9	25.8	25+2	7.5	1.6	. 7					100.0	9.3

GLGGAL CLIMATOLOGY BRANCH LSAFETAC AIR "EATHFK SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SFEED FROM HOUNLY OBSERVATIONS

STATION NUMBER: 221133 STATION NAME: MURMANSK USSR PERIOD OF PECORO: 7 R - 8 7

									MCNTH:	MAF	HOURSILS	T1: AL	L
		• • • • • • •	• • • • • • • •	• • • • • • • •	*II	ND SPEED	IN KNOTS	• • • • • • • • • • • • • • • • • • •		• • • • • • •	• • • • • • • • •	• • • • • • • • •	• • • • • • • • • • • • • • • • • • • •
DECREES !	1-3	4-6	7-10	11-16	17-21	22-21	2 P - 3 3	34-40	41-47	44-55	GE 56	TETAL	ME A N W I N O
ř	. 4	1.7	.5		. 2	.0	• 5	•••••				3,7	8.2
NE [• !	1.5	• 5	. 3	.0							2.7	6.3
NE .	• 1	1.4	• 4	• 1	• 0							2.2	6.7
ENE	• 3	1.6	. 6	. 2								2.3	6.6
£ !	• 3	• 4	. 7	. 7	• 0							2.6	9.0
EZE	• 2	• "	• 2	• *								. 9	5.5
SF	• 1	. 4	• 2	. 2								. 9	6.8
SSE	. 4	1 • 1	• •	1.1	• 1							3.7	8.7
s	1.6	9.7	12.7	11.5	3 • 1	• 3	• 0					39.0	9.9
\$5#	. ,	7 • 1	8.1	6. C	1.6	• 2	• 7					24.0	9.5
SW	• 3	۰٥	1.2	1.7	. 7	٠٦						4.8	11.0
75 W	• 1	. 4	. 4	. 7	. 1							1.6	10.4
h	• 1	. 4	• 2	. 7	. 6	.3						2.3	13.8
una	• 1	. 2	. 4	1.2	. 4	.1						2.5	13.0
NW]	• 3	• 5	• €	. 9	. 1	. 1						2.5	10.3
NNW	• 2	1.2	. 3	• 9	• 2	•1						2.7	8.7
VARIABLE I	• • • • • • • • • •		•••••		• • • • • • •		••••••	• • • • • •					
ì		,,,,,,,,			1111111	,,,,,,,,	,,,,,,,,,				,,,,,,,,,	1.6	(1111)
į									,,,,,,		, . , , , , , , ,		
TOTALS	5.7	29 • 1	28.4	2 7 • €	7 . 1	1.1	• 1					100.0	9.4

GLOBAL CLIMATOLOGY BRANCH PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED USAFETAC FROM POURLY OBSERVATIONS

STATION NUMBER: 221130 STATION NAME: MURMANSK USSR

PERIOD OF RECORD: 78-87
MCNTH: APR HOURS(LST): 0000-0200

	• • • • • • • • •		•••••	• • • • • • • •	T Ni		IN KNOTS	• • • • • •				• • • • • • • • • • • • • • • • • • • •	•••••
IPECTION DEGREES)	1-3	4-6	7-16	1 1-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL	ME AN WIND
f	. ?	5 . 1	2.4	1.7	• 3				••••			8.0	8.6
NNE	. 3	3 • 1	1.0	. 7	• 3							5 • 6	7.1
NE .		2.8	1.0	1.4								5.2	8 . 3
ENE !	• 3	1.4		•								1.7	4.0
E j	. 7	1.4	. 3									2.4	4.6
ESE													
St		. 3	. 3									. 7	6.0
TSF	. 7	. 7	.3	. 3								2.1	6.0
s	1 . 4	9.1	8.4	6.3	. 7							25.8	8.8
SSW	1 • 3	7.7	4.5	3.5	1.0							17.8	8 • 3
5 k	• 3	1.4	2.4									4.2	7,5
kSW !		. 7	. 3	1. ព								2 • 1	10.3
. !	• 3	. :		1.4	. 7							2 • 6	12.5
นเพษ [1.0	2.1	4.2								7.3	11.0
Nu !	. 7	2.1	2 • P	. 7								6 • 3	7.6
NNW I	. 7	• 3	1.7	1.4								4 . 2	8.8
VARIABLE	• • • • • • • •		• • • • • • • •		• • • • • • • •	• • • • • • •	• • • • • • • • • • • • • • • • • • • •	•••••	• • • • • • •	••••••	•••••	• • • • • • • • •	•••••
CALM !	,,,,,,,,,	,,,,,,,	,,,,,,,	////////	///////	((((())	,,,,,,,	//////	,,,,,,,	///////	,,,,,,,	3.8	/////
TOTALS	7.0	31 . 5	27.9	22.€	3.1							100.0	8 - 1

CLUBAL CLIMATOLOGY BRANCH USAFETAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED FROM MOURLY OPSERVATIONS

PEF10D OF FECORD:

79-87

AIR WEATHER SERVICE/MAC

:)

 \bigcirc

0

STATION NUMBER: 221130 STATION NAME:

HONTH: APP HOURS(LST): 0300-050C TOTAL (DEUREES) * WIND 7 3.0 3.0 • 3 9.4 8.8 NNE • 3 2.0 1.3 . 3 4.0 7.0 1 . 7 • 3 . 7 . 7 3.4 10.2 NΕ 3.0 FIRE • ? 1.7 . 7 . 3 6.2 1.0 3.3 Ł . , . 7 FSE . 3 . 7 7.0 SΕ • 3 1.0 3.4 9.7 558 1.3 . 7 • 3 6. 4 28.3 S 2.7 6 . P 9.4 . 7 • 3 A . 4 • 3 7.1 2.0 17.5 7.5 SW 1 e C • 3 4.7 8.5 . 3 1.0 9.7 . 7 10.1 . 7 . 7 1.3 1.3 . 7 3.4 . 7 2.0 11.6 h Nie 2. 7 • ? 2.4 5.1 11.7 NW . 3 ". N . 1.0 1.7 8.1 VARIABLE 5.4 ////// C/LM TOTALS 32 • 7 30.3 21.0 3.4 100.0 6 . t

GEOGRAL CEIMATCEOGY RRAGCH USAFETAC AIR GEATHER SERVICEZMAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED FROM FOURLY OBSERVATIONS

		•••••			#It	O SPEED	IN KNOTS						
IRECTION (Degrees)	İ	4 -6				_	28-33		41-47			TOTAL	ME A N
lu j	. ?	3.4	2.7	1.7	• 3							8.5	6.4
'+NE	1.5	. 3	. 7	1.4	. 3							3 . 9	9.5
NE .	. 7	1 • 7	. 7	• !	. 7							4 • 1	8.3
FNE 341		1.7		. 3								2.0	5.7
Ł	. 7			. 3								1.0	6.0
T S E	• ?	. :										. 7	3.0
SE		1 • 9										1.0	5 • 3
555		. 7	1.0	. 7								2.4	9.1
S	2.5	11 • ¢	9.9	3.4	. 3	• 3						28.0	7.5
55#	1.7	7.5	9.2	4.6	• 3	• 3						23.9	8.5
Sw	. 7	. 7	. 3	1.4								3.1	9.1
W 24		. 7										. 7	4.0
	• 3		. 7	1.4	. 7							3 • 1	13.1
%N#		. 7	1.7	1.0								3.4	9.6
N.w.			3.1	1.7	• 3							5.1	10.7
P. New	• ?	2.4	1.7	1. 7	• 3							6.5	8.4
VARIABLE	' ' · · · · · · · · · · · · · · · · · ·	•••••	• • • • • • • • •	• • • • • • • • •	• • • • • • • • • • • • • • • • • • • •		• • • • • • • •	•••••		•••••	••••••	• • • • • • • • •	
CALM		//////	,,,,,,,,	11111111	1111111	,,,,,,,,	,,,,,,,,	1111111	,,,,,,,	///////	,,,,,,,,	2.7	/////
TOTALS	8.7	33 • 1	31.7	25.1	3.4	. 7						100.3	8.1

GLOBAL CLIMATOLOGY BRANCH USAFETAC AIR WEATHER SERVICE/MAC

PERCENTAGE FRECLENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED FROM HOURLY OBSERVATIONS

PERIOD OF RECOPD:

STATION NUMBER: 22113E STATION NAME: MURMANSK USSR

		_							MONTH:	V L L	HOURS (LS	1): 0900~	1100	
	! • • • • • • • • • • • • • • • • • • •		••••••	• • • • • • • •		B SPEED	IN KNOTS	• • • • • • •	• • • • • • •		•••••	• • • • • • • • •	•••••	•
DIFECTION (DEGMEES)		4 -6	7-10	11-16	17-21	72-27	28-33	34-4C	41-47	46-55	GE 56	TOTAL	ME A N W1 N D	
14	2.5	1.7	5.0	2.4	.7	•••••		•••••	• • • • • • • •	• • • • • • •		8.8	8.5	•
NNE	1.4	. 7	1.0	1.7	1.0							5.8	10.3	
us	• 3	1.4	• ?	. 7								2.7	8 • 0	
ENE	٠ ٦	. 7	.7	• 3	• 3							2.4	9.0	
£	• 3	. 3	. 7	. 3								1.7	6.8	
FSE	• ?	• !	. 3									1.3	t •0	
25														
<u>:</u> \$ F	• 3	1.4	. 3	. 3								2.4	7.4	
S	1.7	υ . c	10.5	8 • P	• 3							28.2	9 • 1	
:54	2.4	ŗ., ş	6.8	3 • 7	1.0	3						20.1	8.6	
SW	. 7	1.4	.7	1.4								4.1	8 • 0	
a 5 a	.,	• ?		. 7								1.4	8.0	
l.	• 3	: • 7	.7	1. 7	. 3							4.8	9 . 8	
in N ₄ at	• 7	• *	.7	1 • 4	. 7							3.4	12.0	
Nw	1.9	1.0	2 • 0	• 3								4.4	6.7	
N/G at	- 3	1.7	1 • 7	1.4	1.0							6.1	9.7	
VARIABLE	••••••	• • • • • • •	•••••	• • • • • • • • • • • • • • • • • • • •	• • • • • • •		••••••		• • • • • • • •					
CALM	 <i> </i>	(,,,,,,,	11111111	,,,,,,,,	////////	1111111	11111111	///////	(1111111	,,,,,,,,	,,,,,,,,	2.7	111111	
101ALS	12+4	25 • 5	28.€	25.2	5.4	. 3						100.0	6.6	

GLOBAL CLIMATOLOGY BRANCH USAFETAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SUPFACE WIND DIRECTION VERSUS WIND SPEED FROM FOUNCY OBSERVATIONS

AIR MEATHER SERVICE/MAC

STATION NUMBER: 221130 STATION NAME: MURMANSK USSR

PERIOD OF RECOPD: MONTH: APR HOURS (LST): 1200-1400 WIND SPEED IN KNOTS 17-21 22-27 29-33 DIPECTION 4 -6 7-1C 11-16 34-4C 41-47 45-55 GE 56 TCTAL MEAN WIND 2 N 1 · · · · · 4. . . 3 10.3 "NE . 7 . ? 1.7 1.0 3.9 11.4 N.C 1. " . 7 1.4 1.7 4.8 10.3 ENE • 7 1.7 . 7 3.1 9.1 Ł . 7 . : . 7 1.7 5.2 1.58 . : • ? 7.0 Sί 1.0 4.6 SSE 1.0 . 3 6.9 7.6 5.9 t . f. 22.5 554 7.0 1.4 9.8 3.8 . 3 13.8 SW 1.4 • 3 1.7 • 3 3.8 10.5 . 7 1.0 . 7 4 S m . / . 7 3.5 10.0 1.0 2.1 7.4 1.7 11.1 Wite . 7 3.1 1.0 10.0 NA 1 . 4 1.7 1.7 9.0 NNW 19.5 VARIABLE CAL" 111111 TOTALS 100.0 9.6

GLOHAL CLIMATOLOGY (RANCH USAFETAC AIR "ŁATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED FROM HOURLY OBSERVATIONS

STATION NUMBER: 221130 STATION NAME: MURMANSK USSR

ION NUMBER	: 221130	STATION	NAME:	MURM AN SK					40V1H:	APP		-87 T): 1500-	17 JC
IPECTION DEGREES)	1-3	4 -e	7-1G		17-21	22-27	IN KNOTS 29-33		41-47	4F-55	GE 56	TOTAL	MEAN WIND
4	• ?	2.0	1.7	3.7	. 7	•••••	• • • • • • • • •	•••••	•••••••	• • • • • • •	•••••••	8.4	10.2
TIME		1.0	1.7	1.7	. 7							5.1	11.1
HE !		. ?	2.0	2.0								4.4	11-1
EHE		1.5	3.0	. 7								4.7	8.6
E !		1.0	1.4		. 3							2.7	A .6
rsc		. 3	1.0									1.4	7.5
3E	• 3	1 • 7	1.4									3.4	6.0
32.2		. 3	1.4	• ?	. 3							2.4	10.7
s	. 1	4.7	5 • 1	5.4	2.7							18.2	10.1
S S #	• 7	1.4	3 • C	3 • ℃	. 7	. 3						9.1	10.6
Sw	. 7	.:	1.0	2.7	. 7	. 3						5.7	11.9
A 5 H	• 3	1.7	2 • 7	. 7								4.7	8.1
•]	. 7	4	4 • 1	2.0	2.5							10.1	16.9
NEW I		1.5	3 • C	£• 4	• 3							7.8	11.3
N.a.		1 • 7	2.4	1.4								5.4	9.6
NA I	• :	:	2.4	2.0								5 . 7	9.4
J 3JBAISAV	• • • • • • • •		******	• • • • • • • • • • • • • • • • • • • •	• • • • • • •	• • • • • • • •	• • • • • • • • •	• • • • • • •	• • • • • • • • •	· • · · · · • •	• • • • • • •	• • • • • • • • •	••••••
CALM .	,,,,,,,,,	1111111	,,,,,,,,	11111111	,,,,,,,	,,,,,,,	,,,,,,,,	,,,,,,	,,,,,,,	,,,,,,,	,,,,,,,,	. 7	//////
101465	3.7	25 • 2	37.2	27.1	8.4	• 7						100.0	10.0

GLOBAL CLIMATOLOGY RRANCH USAFETAC AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED FROM MOURLY OBSERVATIONS

PERIOD OF RECURD:

STATION NUMBER: 221130 STATION NAME: MURMANSK USSR

LEARN OF RECORD: TR-87 MONTH: APK HOURS (LST): 1800-2000 | LIND SPEED IN MNOTS UIPECTION | 1-3 4-6 7-10 11-16 17-21 22-27 28-33 34-40 41-47 49-55 GE 56 TOTAL MEAN (UEGF2ES) | ٨ . 7 2 - 1 8.9 NNE ..4 1.4 1.7 7.5 11.2 ħΕ . . • 7 . 3 8.6 1.7 1. C . 7 2.4 5.2 8.1 EieE 1.^ £ • 3 A .4 2.4 3.8 • 3 558 1.4 1.7 8.8 ŝŧ. • 3 • 3 3.1 7.3 SE . 7 1.7 3.9 P.9 5.5 ... 3.1 2.1 7.6 11.2 5.3 w 1.5 5.8 2.1 . 3 5 . 2 10.9 • 3 : . . 1.4 . 7 . 3 3.5 9.9 554 1.4 1.7 . 3 2.3 6.6 10.6 1 . 4 While 2.1 7 . 8 . 3 8.7 10.7 . 7 9.5 . 4 3.1 7.1 *:Na 8.3 VIRIABLE CSLM .3 ////// TOTALS 100.0 9.7

GUGBAL CLIMATOLOGY BRANCH PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED USAFEFAC FROM POUNLY OBSERVATIONS

PERIOD OF RECORD: 78-87
MONTH: APR POURS(LST): 2100-2300 STATION NUMBER: 221130 STATION NAME: MURMANSK USSR

		• • • • • •		• • • • • • • • • • • • • • • • • • • •		n speen	IN KNOTS	• • • • • • • •				• • • • • • • • • • • • • • • • • • • •	••••••
10F C b = E 2)		4 -f.	7-10	11-16	17-21	22-27	2 A - 3 3	34-4C	41-47	49-55	GE 56	TGTAL %	ME A N U N D
N	. 7	2.4	1.7	1.3	1.0		• • • • • • • • •	•••••				7.1	9.2
MMF	. 7	1.7	1.7	2.0	1.3							7.4	10.1
₩F	!	1.0	1.3	. 7	• 7							3.7	10.7
FNE	!	3.0	1 • C	• 3								4.4	€.2
£	!	: . 7	. 7									2.4	6.6
E SE		1."	1 • 3									2.4	7.1
S£		. ?	• 3	• 3								1.3	7.0
r 5 €	1 1 3	1.0	2 • 4	1.3	. 3							6.4	8.2
٤	! ! 1•0	t • 1	6 • 1	6.1	. 7							19.9	8.9
5 5 h	1.7	2.1	4.7	z.c	1.0							12.1	9.5
S .	! !	4	1.3	?• ŭ								6.1	8.0
K 5 A			1.0		. 3							1.7	9.8
-	.,		. 7	1.0								3.2	P.4
w Mili	!	1 • 7	1 . ?	3.0	. 7							6.7	11.3
Na no	. ,	~	1.7	2.0								5.1	9.7
to to w		: • 7	4 • C	1.?	. 3							8.8	8.7
VANIABLE	 	• • • • • • • •		• • • • • • •	• • • • • • •		• • • • • • • • •	•••••	•••••		•••••	• • • • • • • •	
C∀ſ~		///////	1111111	11111111	,,,,,,,	1111111	,,,,,,,,	1111111	,,,,,,,	,,,,,,,	,,,,,,,	1.7	111111
TOTALS	7.4	20.4	31.3	23.6	6.4							100.0	8.7
	•••••	• • • • • •											

DEBT ALL CLIMATOLOGY GRANCH PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED USAFETAC FROM MOURLY OPSERVATIONS.

ALS WEATHER SERVICE/MAC

STATION NUMBER: 221130 STATION NAME: MURHANSK USSR PERIOD OF RECORD: 78-87

	,	• • • • • •	• • • • • • • •				IN KNOTS	• • • • • • •	• • • • • • • •	• • • • • • • •	• • • • • • • •	• • • • • • • • •	• • • • • • • •
IRECTION Despess		4,	7-10		17-21	22-27	2 º- 3 3	34-4C		48-55	62 S6	TCTAL %	MEAN WIND
ti	1 . 7	 	7.3	2,4	• • • • • • • • • • • • • • • • • • • •	• • • • • • •	•••••	• • • • • • •	• • • • • • • •		• • • • • • • •	g.c	9.1
	l .												
1.14F	} . €	1 • •	1.1	1.5	• 8							5.4	Ģ . R
чŧ		1.4	1.2	٠, ۶	. 4							4 • 1	9.4
+ t+E	j	1.4	1 • 2	٠, د	• 0							3.3	7.4
i.		•	۰, ۶	• 1	• 0							2.1	6.7
1 JE	.1	.3	.6									1.7	7.9
SF		• €	• 6	• 3								1.6	€.2
rst.	. 4	1.1	1.3	. 7	• 2							3.7	8.4
5	1.3	7.1	7.9	6.0	1.1	. 1						23.4	٥.٠
SSW	1 - 1	4.7	5.3	7.1	• 9	.2						15.2	€.8
۶.	i f .4	1.2	1.2	:. 5	• 2	. 1						4.6	9.1
K 5 H		. 6	. 8	٠, د	. 2	• 3						2.3	٩.1
•	i . 4	• 4	1.4	1. 8	. 8							5.3	10.8
NAW		٠٠	1.8	7.5	• ?							5.6	10.9
N.W		1.2	2.4	1.5	• 2							5.6	9.3
.4.	. 9	1.7	2.0	1. r	• 3							6.1	9.0
V O K I ARLE	! • • • • • • • • • • • • • • • • • • •												
	! ! ! /////////////////////////////////												
-	l		,,,,,,,,		. , , , , , , , ,	,,,,,,,	,,,,,,,,,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,,,,,,,	17111111		2	111111
10-13ES	! 7 . .	24.7	31.0	24.6	5.8	.4						100.0	8 . 4

GLOBAL CLIMATOLOGY ERANCH PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED USAFETAC FROM FOURLY OBSERVATIONS AIR WEATHER SERVICE/MAC

STATION NUMBER								MONTH:		- HOURS (LS	1): 0000-	0200
DIRECTION (DEGREES)	 1-2	4-0			#IND SPEE 17-21 22-27	D IN KNOTS					TCTAL 3	ME A N W1 N D
r.	. 7	5 . 7	4.3	3.3	1.0		•••••		• • • • • • • •		14.6	8 . 6
FNE	1.7	3.₹	2.0								7.9	5 • 1
NL.		1.7	2.0	. 7							4.3	7.8
11.5	. 7	1.3	1 + 3	. 5							4.6	5.7
٤	r r	. · · ·	1.0								3.6	6.5
36.1	. 7	1.7		. 3							2.6	4.8
SE	} !	1.0	• 3	. 3							1.7	7.6
5 S F.	• •	4 • 3	1.7	• 3							3.6	6.9
5	1 • 1	6 • 3	8.3	4.0							19.9	7.8
5 S W	1.0	٠.6	3 • 3	1.0							11.9	6.7
S &	. ?	. 7	1.0		• 3						2 • 3	7.9
wsw i	د	. 7	1.0	• 3							2.3	7.4
		: • 3	• 3	1.3	. 3						3.3	8.7
UNK	!	. 7	• 3	1. 7							2.3	12.3
Nie		1 . 7	2.0	1. 7							5.3	e • 9
4,74%	. 1	4.7	2.3	٠,٠	• 3						7.9	7.0
VARIARLE	!				•••••	• • • • • • • • • • • • • • • • • • • •	• • • • • •	• • • • • • • • •	•••••	• • • • • • • •	• • • • • • • • • • • • • • • • • • • •	
CAL"	111111111	,,,,,,,,	//////	,,,,,,,,,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,,,,,,,,	,,,,,,	,,,,,,,,	////////	,,,,,,,	2.6	111111
10.141.5	7.3			15.6	2.0						100.0	7.3

ULBEAL CLIMATOLOGY BHANCH PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED USAFETAG FROM POURLY OBSERVATIONS. AIR WEATHER SERVICE/MAC

PERIOD OF RECORD: 78-87
MONTH: MAY HOURS(EST): 0300-0500 STATION NUMBER: 221130 STATION NAME: MURMANSK USSR

• • • • • • • • • • • • • • • • • • • •		• • • • • • •	•••••	• • • • • • • •	 I w	ND SPEED	IN KNOTS	• • • • • • •	• • • • • • • •			• • • • • • • • • • • • • • • • • • • •	
DITECTION IDEGREES)		4 -4.	7-10	11-16		22-27	2 P = 33		41-47	46-55	GE 56	TCTAL *	ME AN WIND
N	2.3	7.8	2.0	4.2	• • • • • • •	•••••	•••••		•••••	• • • • • • • • •		16.3	7.1
NE	1	1.6	1.3	1.3								4.9	€.9
NE	1.5	2.1	1 • 3	• 3								4.9	5.9
L 14E		4.7	1 • 3	. 3								4.2	6.5
Ł	2.0	1.6										3 • 6	3.1
1.58	3	. 7	. 3	. 3								1.6	6 • 8
SE		. 7										1.7	4.0
° 5 (;		1 - 3	1.3	• 3								3.3	7.0
S	2.0	5 • 2	6.2	4.6								22.9	7.5
< 5 h	1.6	. 3.9	6.5	2.3								14.4	7.5
S a	!	1.5	1.0	. 7								3.3	7.4
W S H		. 7		. 1								1.3	7.5
•			1 . ?	1.0	. 3							2.5	12.4
WNW	.:	• ?	1.6	1. 3	. 3							3.9	10.8
ta ee	.7	1.7	1.6	1.6								5.2	8.1
Po Perio	į	1.7	1 • 3		• 3							4.9	7.1
VARIABLE	!	•••••	•••••	• • • • • • • • • • • • • • • • • • • •	• • • • • •		••••••	• • • • • • •	•••••			• • • • • • • •	
CALM	111111111	,,,,,,,	11111111	11111111	1111111	,,,,,,,,	,,,,,,,,	,,,,,,	,,,,,,,	,,,,,,,,	,,,,,,,,	1.6	/////
10115	12.6	31 • ?	29.1	19.6	1.0							100.0	7.2
	• • • • • • • • • •	. <i></i>											

GEOBAL CLIMATOLOGY PRANCHUSAFETAC ATH MEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED FROM HOURLY OBSERVATIONS

PERIOD OF RECORD:

STATION NUMBER: 221130 STATION NAME: MURMANSK USSR

#IND SPEED IN KNOTS

DIRECTION 1 1-3 4-5 7-10 11-16 17-21 22-27 28-33 34-40 41-47 48-55 GE 56 1CTAL MEAN IDEGREEST 1 3 WIND .., 4 . 3 3. 9 . 3 15.8 8.5 N 6.6 1.3 1.5 1.0 NNE 1.3 4.6 7.3 3.0 WC • ! 2.6 • 3 5.6 7.5 ENE . 7 . 3 . 7 2.7 • 3 • ? 6.0 ESC • 3 1.6 1.7 SE 1.3 4.0 5 S E . 7 . 7 . 7 11.0 . 7 2.6 1.6 5 . 7 12.2 4.6 23.7 8.5 3 SSW 2.0 5 • 6 4.6 3.6 15.8 7.5 . ₹ 5.8 • 3 . 7 4.0 . 7 . 7 . 3 . 7 • 3 7.9 1.0 1.0 • 3 h top • ! 2.3 1.3 • 3 4.3 10.8 N.W i . 2 1.0 1.3 3.6 8.9 NNW 1. ? 1.3 . 3 • 3 7.9 CAL 4.6 ///// 12.9 100.0

TOTAL NUMBER OF OBSERVATIONS: 734

PECTION EGPEEST	1-3	4 -6	7-1C		a I	NO SPEED	IN KNOTS 28-33	•			GE 56	TOTAL	MEAN WIND
	••••••				• • • • • • • • •								
N	. 7	5.6	3.3	2.5	.7	• ?						13.5	8.2
NNE		i. *	2.3	• 7								4 , 3	8.6
NE I	• 3	. 7	2 . 3	1 • G								4.3	8.9
EHE !	. 7	1.2	1.0	. 7								3.6	7.5
		1.0	3.0	. 7								4.6	R . 9
ESE !				. 3								. 3	14.0
SF		• ?	. 7	• 3								1.3	9.5
SSE !		3.7	2.0	1.0								7.2	1.6
2 [1.5	5.6	6.6	4.6	• 3							19.3	я.
559	7.0	2.6	5.3	3.3	. 7							13.8	۴.6
Sw I	1.6		2.0	2.0								5.6	8.9
L HS		• ;	. 7	1.0	• 3							2.3	11.6
. !	1.0	. ?	1.3	2.0		.:						4.9	10.6
-Nn	• :	1.6	1.0	2. 2								4.9	9.1
NH J		i • C	1.0	. 7			•					2.6	9.0
NNW 1	. •	2.3	2.3	1.3	• 3							6.6	7.9
ARIABLE	•		•••••	•••••	• • • • • • •	•••••			• • • • • • • •	• • • • • • •	• • • • • • •	• • • • • • • • •	
ار ا	,,,,,,,,,	,,,,,,,	1111111	11111111	,,,,,,	,,,,,,,,	,,,,,,,,	1111111	,,,,,,,	,,,,,,,	,,,,,,,	2.0	11111
OTALS 1	٠. و	28.e	34.5	2 3 • 3	2.3	. 7						100.0	8.5

GLOWAL CLIMATOLOGY PRANCH USAFLTAC AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND CIRECTION VERSUS WIND SPEED FROM HOUNLY ORSERVATIONS

GLOBAL CLIMATCLOGY BRANCH PEPCENTAGE FREGUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED USAFETAC FROM HOURLY OBSERVATIONS

STATION NUMBE		-		-					MONTH:		HOURS (LST	1: 1200-	1400
	1	••••••	• • • • • • •	• • • • • • • • •			IN KNOTS		• • • • • • •	• • • • • • • •		• • • • • • •	• • • • • • • • • • • •
DIPECTION (DEGREES)	1	4 -6	7-15		17-21	22-27	28-33	34-40	41-47		6E 56	TCTAL	MEAN WIND
N	1 .7	4 . 3	3.6		.7		•••••	• • • • • • •	• • • • • • • •	• • • • • • •	• • • • • • • •	11.1	8,6
NNE	.3	2.0	3.0	1.6	. 7							7.5	9.5
f4E.		1.7	2.6	1.6								5.2	9.5
ENE	:	. *	1.3	. 7								2.3	9.4
£	į	1.6	2.3	• 3								4 . 3	7.8
rst	į	: • 5	. 3									1.6	6.4
SF		• ?	1.0	. 3								2 • 0	7.7
338	1 .7	1.0	1.0	. 7								3.0	7.6
>	. 7	2.3	5.2	6.2	1.0							15.4	10.6
2 S m	.3	1.6	2.0	4.6								8.5	10.2
Sw	1.0	2.0	2.6	1.3	1 • C							7.9	9.0
WSW	.3	2 • ?	2.6	1.6								6.9	R + 3
k	1 . ?	1.3	1.0	2 • 3	• 3	. 7						6.9	9.8
witeN	1 .7	• 7	1 • 3	1.6	• 3							4.3	10.4
NW	į .:	2.5	. 7	2.7	• 3							5 • 2	9.7
fit few	1.5	1.6	3.3	2• 0								7.9	8.2
VARIABLE	!	•••••	• • • • • • •	• • • • • • • • •	• • • • • •	•••••	•••••	• • • • • • •	••••••	• • • • • • • • •	• • • • • • •	•••••	
CALM	1111111111	////////	//////	,,,,,,,,,	111111	1111111	,,,,,,,	,,,,,,,	,,,,,,,	,,,,,,,	,,,,,,,		111111
TOTALS	6.7	24 • €	33.8	20.5	4.3	1.0						100.0	9.3
	· •••••••	•••••	• • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • •								

GLOBAL CLIMATOLOGY ON ANCH USAFLTAC AIR WEATHER SFRVICE/MAC

FERCENTAGE FREQUENCY OF OCCUPRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED FROM HOURLY OBSERVATIONS

STATION NUMBER	8: 221135	ACTATION	NAME:	MURM ANSK	USSR				UGI©39 :H™#0M	OF PECOR	D: 79- Hoursilsi		1700
	· <i>· · · · · · · · ·</i>	•••••	• • • • • •	• • • • • • • • • • • • • • • • • • • •			IN KNOTS		• • • • • • • •	• • • • • • •	•••••	•••••	•••••
DIRECTION IDC REEST		4 ~0		1 1- 16	17-21	22-27	28+33	34-46			GE 56	JATOT \$	ME AN WIND
f4	.7		4.3	3.3	• • • • • • •	•••••			•••••	• • • • • • • •	•••••	11.2	9.7
t.NE	. ;	1.7	3.3	2. 7		.3						7,6	9.7
5€		.7	2.3		• 3							3.3	€.7
ENE	! ! !		1.3	. 7								3.0	B • 7
L	?	1.7	2.6	1.7								6.3	P . 5
₹ Ş E	! !	1.7	1.0									2.0	7.0
SE	}	1 • 7	. 7									2.3	6.6
5\$€		• ?	2.3	• ?	• 3							3.3	9.9
٥	. 7	1 • 7	3 • C	4.5	1.0							10.9	10.5
5 S m	3	2.2	3.3	2.€	• 7							9.2	9.6
5*	. 3	3.0	5.0	1.3	• 7							9 • 2	9.0
₩ 5 ₩	• ?	2.3	2 • 3	1. ^	• 7							6.6	8.5
•		1.0	1.0	1.3	1.0	•7						5.0	13.7
Su Parke		1.7	2.0	1.0	. 7							4.6	10.0
ti ii		1.7	1.7	7.3	. 3							5.6	10.5
NNW	. 7	2.6	3.0	2.3	• 3							8.9	8.7
VARIABLE	, • • • • • • • • • • • • • • • • • • •		•••••		• • • • • •	•••••	•••••	• • • • • •	•••••	• • • • • • •	•••••	• • • • • • • •	•••••
		'''''	,,,,,,,	//////////	//////	,,,,,,,,	,,,,,,,,,	,,,,,,,	,,,,,,,,,	,,,,,,,,	,,,,,,,,	1.0	111111
TOTALS	} 3.6 	24.5	38.9	2 4 4	5 • 9	1.0	. 3					100.0	9.5

GLOCAL CLIMATOLOGY PRANCH USAFETAC . AIR WEATHER SERVICE/MAC PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED FROM MOURLY OBSERVATION $^{\rm C}$

TION NUMBER	: 221130	STATION	NAME:						MONTH:	MAY	-	-87 T1: 1800-	2000
DIRLCTION F	1-3	4 -c	7-10	1 1+ 1e	17-21	IN SPEED 22-27		34-40	41~47	48-55	GE 56	TCTAL	ME A N WIND
N [1	4.7	6.3	7.7	. 7		• • • • • • •			• • • • • • • •		16.3	8.6
NNE .		. 7	2.3	Z• i	. 3	. 3						5.1	11.9
NF		. 7	2.3	1.0								4.7	9.5
ENE		1.7	4.3	1.3								7.3	8.9
ι !		1 . ?	3.3	1.0								5.6	8 . R
a s e		. 7	1.0	• 3								2.3	8 • 3
SF	• 3	1.3		1 • 3								3.7	€.2
55a		. 7	. 7	. 7								2.0	9.0
5	. 7	1.7	5.3	3.7	. 7							12.5	9.9
554		3	3.0	2.7								7 . 3	8.9
SW	. 7	s 7	. 7	1.7	. 3							6.0	7.7
WSW		:.:	i. 3	. 7	. 7							4.0	10.0
	• 3	2.0	1.0	2.0	• 3							5.6	9.4
*N#	. 3	1 . 7	1.0	1.3	1.5							5 . 3	10.1
1.44		:	• 3	2 • 0	. 3							4.7	9.8
NN# [. 7	3.0	2.7	2.3	• 3	. 3						9.3	9.3
VARIARLE	• • • • • • • •	••••••	******	• • • • • • • • •	• • • • • •	•••••	•••••	• • • • • • •	•••••	• • • • • • • •		• • • • • • • • •	•••••
CAL"	,,,,,,,,,	,,,,,,,	1111111	11111111	,,,,,,,	,,,,,,,	,,,,,,,	,,,,,,,	,,,,,,,,	,,,,,,,	11111111	• 3	//////
TOTALS	4.0	27.9	35.5	26.9	4.7	.7						100.0	9.2

TOTAL NUMBER OF OPSERVATIONS: TOTAL

GLOBAL CLIMATOLOGY BRANCH PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED USAFETAC FROM HOURLY OBSERVATIONS

ION NUMBE	7: 22 11 32	STATION	NAME:						PEFIOD (-87 1): 2100-	2300
DISECTION COFGREES		46	7-10		WII	D SPEED	IN KNOTS 2P-33		41-47	48-55	GE 56	TCTAL 3	MEAN WIND
N	1.0	4.9	5.6	3. €	1.3	••••••	. 3	• • • • • •			•••••	16.å	9.5
NNE	.3	2.5	2.6	1. 3								6.2	8.3
45	. 3	1.6	2.6	. 7								5.3	7.9
[IdE	. 3	1.5	2.0	. 7								3.9	7.8
t.	!	2.3	;" • n	. 7								5.9	7.4
2 S E	. 3	:•€	1.3									2.6	6.5
SE	}	:.6	2.3	. 3								4.3	8.0
SSE	!		1.6	1.€								5 - 3	8.8
5		4.3	4.9	3. 3	• 3							13.2	A • B
5 S #	.7	3.3	4.3	1.0								9.2	7.2
S 🕶	.3	. 7	.7	. 7	• 3							2.6	6.8
w S w	.3	1.0	. 3		. 7							2.3	9.4
M] .3	• 3	1.3	. 7	• 3							3.n	9.7
> NW	.7	· • •	2.0	1.3								4.0	я.9
NW	.2	2.3	2.5	• 3								4.9	7.1
titaw	1.~	2.6	3.6	1.3		• 3						8.9	7.9
VARIABLE	• • • • • • • • • • • • • • • • • • •	•••••	•••••	• • • • • • • • •	• • • • • • •		•••••	• • • • • •	•••••	• • • • • • • •	• • • • • • •	• • • • • • • • •	• • • • • •
CALM	111111111111111111111111111111111111111	////////	1111111	(11111111	//////	1111111	,,,,,,,,	,,,,,,	11111111	///////	,,,,,,,,	. 7	/////
101465	l 6. z	32.5	39.1	17.4	3 • C	. 3	• 3					100.0	8.3

GLOBAL CLIMATOLOGY BRANCH AIR WEATHER SERVICE/MAC

PEPCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED FROM HOURLY OBSERVATIONS

STATION NUMBER: 221130 STATION NAME: MURHANSK USSR

PERICO OF RECORD: MONTH: MAY HOURS (LST): #IND SPEED IN KNOTS

DIRECTION | 1-3 4-6 7-10 11-16 17-21 22-27 28-33 34-40 41-47 48-55 GE 56 TCTAL MEAN IDEGREEST 1 1 w1ND 6.6 . 1 . 1 14.5 • 5 ٨. 5 . 4 4.2 3.2 2.3 1.2 . 1 . 1 5.9 8.4 . € 1.7 NNE . 0 145 1.3 2.3 . 7 4.6 8.1 ENE 1.7 1.6 , 1 3.9 7.8 • 3 4.7 7.4 1.8 6.9 . 5 • 2 ESE . 2 Jε 1.0 2.1 7.3 . 1 .6 , 7 3.8 SSE • : 1.4 1.4 . 1 8.3 6.7 ŝ 1.0 4 . 4 4.4 17.0 8.5 1.5 3.5 11.3 8.1 554 4.0 2.6 . 2 . 9 4.7 8.5 Sa . 6 1.2 1.6 . 3 WSW . 7 • 3 3.5 9.0 1.0 . 4 10.4 ٠, • 3 4.3 10.1 1.4 1.6 1.3 1.5 . 1 4.7 9.0 .: 1.50 9.1 3.1 100.0 8.4

GLOBAL CLIMATOLOGY PRANCHUSAFETAC

PERLENTAGE FREQUENCY OF OCCUPRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED FROM HOURLY OBSERVATIONS

AIR WEATHER SERVICE/MAC

STATION NUMBER: 271130 STATION NAME: MURMANSK USSR PESIOD OF RECORD: 78-87 HONTH: JUN HOURS(LST): 0000-0200 WIND SPEED IN KNOTS DINECTION | : - 3 7-10 11-16 17-21 22-27 28-33 34-40 41-47 48-55 GE 56 TOTAL MEAN WIND IDEGREES! 1 1 N 8.6 • 7 e • 1 7.8 5.1 22.0 NNS 1.: 3.7 2.4 . 7 9.1 7.0 • 3 NΕ . 7 3.0 2.7 • 3 5.8 7.1 :.-1.0 • 3 3.4 6.9 Ł 1.7 7.7 ESE . 7 1.0 6.3 1.0 2.0 6.7 . 3 SE . 7 . 7 4.4 5.5 SSE : . 7 1.4 . 7 2.7 5 . 7 5.0 4.7 . 3 15.3 8 . 3 5 S W . 7 2 . 7 • 3 3.7 4.9 . 7 . 7 4.0 . 7 . 3 2.0 6.0 . ? • 3 10.0 1.0 6.5 * A & 2.4 2.7 1.4 7.5 9.4 . 7 Ne *11/4 5 - 1 8.1 3.1 VARIABLE CALM TOTALS 130.0 32.5

GLOBAL CLIMATOLOGY PRANCH USAFETAC AIR WEATHER SERVICE/MAC

 \odot

1 6:

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED FROM HOURLY OBSERVATIONS

PERIOD OF RECORD:

STATION NUMBER: 221132 STATION NAME: MURMANSK USSR

#IND SPEED IN KNOTS

UI94CTION | 1-3 4-6 7-10 11-16 17-21 22-27 00 77 77 77 WIND 2 IDLURIES) 1 7.4 20.2 ٨ 7.9 3.4 4.5 3.4 1.0 7.9 9.2 4.1 1.7 NNE • ? 1 . ز 3.1 6.4 NE 2.1 1.0 7.3 2.7 FNE 1.0 .7 . 7 Ł • ! • 3 1.4 8.8 1.3 8.0 . : • 7 SSE . 3 4.5 . , 51 . 7 1.4 · .5 . 7 SSC • 3 7.3 16.4 1.6 7.2 5.1 3.1 11.5 1.8 6.2 554 5.1 5.3 2.1 SW . 3 . 3 2.4 6.9 . 7 • 7 1.4 . 3 3.1 7.2 . 3 2.1 8.3 • 7 1.0 . 7 4.1 7.1 . 3 8.6 10.3 . 7 ti⊯ NNW 7 . 8 4.8 1.4 . 3 VARIAPLE 4.9 ///// CALM

GLOBAL CLIMATOLOGY BRANCH USAFLTAC AIR WEATHER SERVICEMMAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND STRECTION VERSUS WIND SPEED FROM HOURLY OBSERVATIONS

PERIOD OF RECORD:

75-87

STATION NUMBER: 221130 STATION NAME: MURMANSK USSR

#ENTITED OF MECORD: 76-87

MONTH: JUN HOURS (LST): 0600-0800

MIND SPEED IN KNOTS

DIRECTION | 1-2 | 4-6 | 7-10 | 11-16 | 17-21 | 22-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-37 | 30-3 IDEGREEST | 1 WIND 19.0 ř. 1.7 5.1 7. 7 1.0 8.1 I:NE . 7 4.4 2.0 9.5 ٥. ٩ ΝE 1.7 7.4 ENE . 7 . 3 6.6 • 3 6.0 ESF . 3 . 3 . 7 4.0 Sέ . 7 . 7 4.0 1.0 SSF . 3 . 3 1.0 2.7 7.8 5 11.2 5.4 2.4 20.1 6.8 55% 2.0 4 . F 2.0 1.7 10.5 S a . 7 1.0 i . C • 3 3.1 6.4 ٠, • ? . 7 12.0 . 7 • 3 2.7 9.5 1.7 2.0 • 3 . 3 4.1 8.6 t. w . 3 1.0 . 7 3.4 5.4 10.3 NNA 5 • 5 2.0 3.4 • 3 12.2 8.4 VERTABLE CALM 2.4 ////// TOTALS 17.3 2.4 100.0 7.6 . 3

GLOBAL CLIMATOLOGY BRANCH USAFETAC AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SFEED FROM HOURLY OBSERVATIONS

STATION NUMBER: 221130 STATION NAME: MURMANSK USSR

#EMIND OF RECORD: 78-87 MONTH: JUN HOURS(ESTI: 0930-1100 WIND SPEED IN KNOTS DIRECTION | 1-3 4-6 7-10 11-16 17-21 23-27 20-27 PERIOD OF RECORD: 70-87 17-21 22-27 28-33 34-40 41-47 48-55 GE 56 TCTAL (DEGRIES) | CIMB 9.e N 6.1 5.8 21.8 . 7 1.4 3.1 7.7 7.8 MNE • 3 10.4 Αŧ 1.4 3.1 LNE . 7 1.0 1.7 7.6 r .6 r se . . ٠,٦ 6.0 5.5 . 3 1.4 f . 0 SISE . 7 1.0 1.7 . 3 3.8 7.0 5 . F 8.5 . 7 5 2.4 8 - 1 18.1 5 S K 2.4 1.7 2.4 • 3 6.9 9.5 . 7 . 7 7.8 5 × 1.4 3.4 1.0 4 5 h • 3 1.7 4.9 • : 1.7 1.7 • 3 4.4 10.8 w NW 1.0 . 7 1.5 • 3 3.4 9.1 11.0 ... 1.7 • 7 1.4 6.5 10.0 VERTABLE 1 CALM 1.7 ////// 100.0

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND LIPFCTION VERSUS WIND SPEED FROM HOUNLY OBSERVATIONS GEOLAE CEIMATCLOGY PRINCH USAFETAC AIR KEATHER SERVICEIMAC

STATION NUMBER	: 221130	STATION	: HAME:	ML RM AN SK	LSSR				PE7100 #747#:	GF PECOR		-87 11: 1200-	1400
OF CATE 21	1-3	4 - 6	7-16	11-16	17-21		IN KNOTS 28-33	34-40	41-47	44-55	GE 56	₹ C T & L \$	ME AN WIND
1.		4.5	3.5	٤, ڙ	1.7	• • • • • • • •	••••••	•••••		••••••		20.5	9.0
NNE		٠.7	1.7	2.7								7.2	£ * 8
1, [. •	. 7	• 2								1.4	9.5
THE !			2 • 1	٠, ١								2.4	9.7
ŧ. I	. 7	1.4	. 3	. 3								2.7	5.5
fist I	• *	1.	. 3									1.7	5.6
5 £		. 7										. 3	4.3
1 151 1		• 7	1.0	1. ~	1.0							?.4	13.1
: 1	. 7	7	6.5	7. €								13.7	Я.Ф
· · · · · · · · · · · · · · · · · · ·	. 7	1. Γ	3.1	2. !	1 • C							7.9	10.3
5 m	• ?	:• ^	1.4	<i>2</i> • 1	. 3							5.1	9.9
-1 m	. ,	. ?	• 7	. 7								1.7	e.5
. !	. ,	1	2.1	2.4								7.2	۶.7
- 1 - 1		. ?	1.0	1.7	• 3							3.4	9.5
r. w 1	. 7	11		1.4	1.9							6.5	9.B
1	1 • 1	j.s	5.0	4	1.0	.,	. 7					14.7	Ç.7
VARIABLE 1													
(∧L₩ Ì	1//////////////////////////////////////	1111111	(1) (1) (1)	(1/1//////	1111111	////////	/////////	(1//////	11111111	////////	///////		111111
ICTALS	5.2	٠	36.3	21.3	6 • 5	• *	• 7					133.0	c • #
						• • • • • • • •							

GLOBAL CETMATOLOGY BRANCH USAFETAC ATP "CATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND UTHFCTION VERSUS WIND SPEED FROM FOURLY OBSERVATIONS

STATION NUMBER: 221130 STATION NAME: MUHHANSK USSR

#E-190 OF FECORD: 79-87 MONTH: JUN HOURS(EST): 1500-1700 WIND SPEED IN KNOTS 1-3 4-5 7-10 11-16 17-21 22-37 20 32 PERIOD OF FECORD: DIFECTION MEAN WIND TOT GREES! ! 23.2 1.7 10.4 14 6.8 h - 2 • 3 . , 7.5 MNE 3 . A 7. 11.3 9.5 2.7 ΝE 2.0 • 3 r NE 2.0 10.3 3.8 10.4 t 8.0 F SE 1.0 A . 7 Ĉ t . 3 • : ٠. ^ 3 . A 9.0 558 1. J . 3 . 3 10.6 9.5 2.7 . 7 5 .. • 4 4.1 554 $1 \cdot 7$ 1.7 7.4 • 3 • 3 7.5 10.7 . 7 2.7 10.5 5.1 9.7 1.7 . : 7.9 1.4 . 3 3.8 . 7 1.0 1.4 . 7 11.5 4100 1.3 1.7 8.5 9.4 NE 1.4 > 4 1.7 1.84 12.3 4.4 7 . 1 1.4 10.2 VARIABLE CALM TOTALS 100.0 29.0 5 . 2 1.7 10.0

GLOUZL CLIMATOLOGY BRANCH USAFETAC AIR WEATHER SERVICEMMAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED FROM MOURLY OBSERVATIONS

۱	• • • • • • • • •	• • • • • • •			w 1 !	ND SPEED	IN KNOTS	5	• • • • • • • •				•••••
TIFLCTION P	1 -3	4-6	7-13			-	29-33				GE 56	TOTAL	ME A N W1ND
N	. 7	5.1	8.8	11.1	2.0	•••••	•••••		• • • • • • • •		• • • • • • • •	27.6	10.6
NNE	. '		4.0	. 3.3	. 3							9.9	9.8
ief	• 7	1.5	1.7	1. 7								4.7	9.3
ENE		. 7	1.3	2.0								4 • C	10.5
		. 3	1 • C	2.€								3.4	10.8
ESE !			. 7									. 7	٥.0
SF .		. 3	• 3	• 3								1.0	10.7
SSE !		• 7	.7	1. 7								2.7	11.3
١ ،	. •	2.7	4.0	3. 7	. 7							11.4	9.6
55w		1.7	2.4	∠. 0	. 3							6.4	9.3
S 4 .		. 7	. 7	2.4	. 3							4.7	10.9
kS4	• 3	• 7		• 3	. 3							1.7	B • 2
-	• 1	• 5	2.4	1.0								4.0	9.5
usu į		. 7	. 7	• ?								1.7	7.6
V%		1.0	. 7	2.4	1 • 3							5.4	12.6
1.NW		.7 . 4	2.4	5.4	1.0							11.1	11.5
VARIABLE	• • • • • • • • • • • • • • • • • • • •			• • • • • • • • •	• • • • • • •	•••••	••••••	• • • • • • •			•••••		
CAL"	,,,,,,,,,	////////	,,,,,,,,	11111111	1111111	1111111	11111111	,,,,,,,	11111111	((((((11111111	. 3	111111

GLORAL CLIMATOLOGY BRANCH USAFETAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND JIRFCTION VERSUS WIND SPEED FROM HOURLY OBSERVATION $^{\circ}$

AIR AFATHER SERVICE/MAC

STATION NUMBER: 221130 STATION NAME: MURMANSK USSR PEDIOU OF RECORD: 78-87 #IND SPEED IN KNOTS

DIDECTION (1-7 4-5 7-10 11-16 17-21 22-27 28-33 34-40 41-47 48-55 GE 56 TOTAL MEAN (DEG/2ES)) 1.0 26.0 10.3 N 4 . 1 9.1 11.1 3. 7 9.4 P-NF 3.0 3.4 5 - 1 2.7 . 7 8.1 1eF 1.4 ٠, thi 1.4 1.0 3.0 9.1 9.5 Ĺ 1.4 1.7 1.0 4.4 . 7 6.0 1.4 1.7 . 7 4 . 1 7.5 SE • : 8.3 : . " 3.0 . 3 951 8.5 3.4 3.7 7.4 . 3 1.0 ъ 2.7 4 - 1 : Sw 6.5 • 3 1.4 . 3 . 3 2.0 . 7 . 3 €.8 Sъ . 7 NS N 1.0 1.7 e . 4 1.4 . 3 2.0 9.0 z N w . 7 1.0 . 7 2.7 8 . 3 1 • n 2.7 . 3 5.4 10.9 Sten 4.4 VARIABLE CAE** 1.0 ///// 35.5 31.4 190.0 9.1

GEORAL CLIMATCEOGY PRANCH

PERCENTAGE FREDLENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED FROM MOUNTLY OBSERVATIONS

ATP WEATHER SERVICE/MAC

STATION NUMBER: 221137 STATION NAME: MURMANSK USSR FE=100 OF RECORD: 79-87 #IND SPEED IN KNOTS

DIRECTION | 1-7 | 4-6 | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-85 | GE 56 | TGTAL | MEAN | (06-08-28-5) | 1 (DEGREES) 1 WIND 9.3 7.1 (.8 22.6 1.1 5 . 2 FNE . 4 . . ? 3.4 2.5 . 1 8.7 9.1 • 7 1.7 NE 3.5 7.8 1.1 . ၁ 2.8 ENE 1.2 . 7 A . 5 • • Ł 1.0 ٠ 6 . 0 2.7 8.3 156 . 4 . 0 1 • 1 6.5 SŁ . 2 7 - 1 5.51 . 9 . 9 3.4 ۹.7 ۲, 5.1 3. 1 . 3 14.7 8.2 554 ٠. ٠ 2.0 . 3 1.5 • 2 7.2 8.0 5.4 ٠, ۲, • 2 2.9 ۰.5 . 4 . € • 6 . 1 2.1 8.0 1.4 1.0 ٠, ۶ . 1 3.5 9.0 WHILE . 7 1.1 . 2 3.0 9.9 • t N. 1.7 2.1 1.5 1.G • 1 6.7 10.2 *. N . VILIABLE CALM 1.8 ///// • 1 TOTALS 33.1 100.0

GLOBAL CLIMATOLOGY RRANCH USAFETAC AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED FROM HOURLY OBSERVATIONS

STATION NUMBER: 221152 STATION NAME: MURMANSK USSR

ON NAME: MURMANSK USSR PEPIOD OF RECORD: 78-87
MONTH: JUL HOURS(LST): 0000-0200
WIND SPEED IN KNOTS
7-10 11-16 17-21 22-27 28-33 34-40 41-47 49-55 GE 56 TCTAL MEAN DIRECTION | MEAN (DEGREES) | MIND Ŋ. 24.2 8.0 P. NE 4.9 5.6 1.3 12.7 7.1 1 • ... Nr. 4.2 6.5 7.3 2.9 4.7 ENE 1.6 1.0 . 3 1.3 6.5 Ł 2.0 5.3 FSF 1.€ . 3 1.0 9.3 SE . 7 . 3 1.0 3.6 9.2 SSE • ? 1.6 . 3 • 3 S 2.0 €.2 b • 2 • 3 14.7 6.5 rsw 1 . 3 • 3 7.8 5.2 . 7 1.0 10.7 • ! 8.5 1.3 . 7 2.3 6.0 . 7 4.74 4 • 3 1.0 6.7 1. Nie 1. 2 1. : 1.6 • 3 5.2 8.2 MINE 3.3 1.0 10.8 6.8 VARIABLE CALM 1.6 ///// 11.1 1.3 . 3 100.0 TOTALS 7.0 32.0

GLOBAL CLIMATGLOGY BRANCH USAFETAC AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED FROM MOUNLY ORSERVATIONS

STATION NUMBER: 221130 STATION NAME: MURMANSK USSR FERIOU OF RECORD: 78-87 MONTH: JUL HOURS (LST): 0300-0500 wIND SPEED IN KNOTS 17-21 22-27 28-33 34-40 7-10 41-47 48-55 GE 56 TOTAL DIFFCTION I 4-6 11-16 (DEGPEES) t WIND ······ 9.7 5.5 19.5 1.6 LNE 3.9 3.9 1.6 10.1 . 0 1.5 2.5 1.0 . 6 6.5 6.3 NE 3.2 6.8 t fek 2.3 .6 . 3 . 3 • 3 Ł 10.0 1.0 4.0 f S E . 3 SE . 3 1 C . D 2.9 P . 3 SSE 1.0 1.0 . 3 • 3 • 3 6.7 15.9 5 4.9 2.3 4.5 • 3 14.3 5.8 2.6 1 . 3 8.0 1.3 4.5 . 3 # 5 W 1.0 1. 7 2.9 5.6 • 3 . 6 . 6 6.3 * 1. * • 6 • 3 . 3 . É 1.~ 2 • 3 3.9 8.9 Nie . 6 3.9 4.9 12.0 7.7 ta Nova 2.3 VARIABLE CALM 2.6 100.0 31.5 1014LS 41.2 17.0 • 6

CLUBAL CLIMATOLOGY BRANCH FERCENTAGE FREQ USAFETAC AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED FROM HOURLY OBSERVATIONS

STATION NUMBER	: 221130	MOLITATIC	NAME:	MUKH AN SK	USSR				PEPICO (OF RECOR		-87 []: 0600-	08 00	
	• • • • • • • • • • • • • • • • • • • •	••••••	• • • • • • •				IN KNOTS		• • • • • • • •	• • • • • • •	• • • • • • • •	•••••	• • • • • • • • • •	
DIRECTION (OF GPEES)		4-6	7-13	11-16			28-33		41-47	4 = -55	GE 56	TOTAL 2	MEAN WIND	
N 1	2.9	7.3	10.1	7.6	1.0			• • • • • •	* * * * * * * *	• • • • • • •	••••••	25.5	7.8	•
NNE J	• 3	2.5	2.6	2.6								8.5	8.8	
NE I	• 5	3 • 6	1.3	. 7								5.9	6.2	
FIVE 1		1 - 3	. 3									1.6	6.4	
ŧ İ		1.7	1 • 3									2.3	6.9	
F.S.E. J	. 7	• 3										. 7	3.0	
sr i	• *	1 - ?			•							1.6	3.6	
• <u>5 į</u>		1.5	. 3									1.7	5.5	
s	2.0	8 • a	10.1	1.0	• 3							22.2	7 - 1	
1 ¥2.5 1	1 • 3	4 • 2	3.3	. 7								9.5	6.1	
sw i I	1 • 7	• ?	+3									2.0	3.3	
454 j			• 3									. 3	8.0	
, i	• 1	1.3	1.0	• 3								2.9	6.7	
k N W	. 7		. 7	1.3								2.3	10.3	
Nu I	• 7	• *	2.0	. 7								3.3	8.4	
Now i		2 . 3	4.2	1 • G								7.5	7.9	
VARIABLE 1	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	•••••	• • • • • • • • •	• • • • • • •	•••••	•••••	• • • • • •		• • • • • • •	• • • • • • • •		• • • • • • • • • • •	• •
C41" [<i> </i>	,,,,,,,,	,,,,,,,	//////////	///////	,,,,,,,,,	,,,,,,,,,	,,,,,,	71711111	///////	,,,,,,,,	2.6	111111	
TOTALS [q.a	36 • 6	37.0	1 1 • 6	1 • 3							100.0	7.1	

GLOBAL CLIMATOLOGY BRANCH USAFLTAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND UIRECTION VERSUS WIND SPEED FROM HOUNLY OBSERVATION!

AIR WEATHER SERVICE/MIC

PER10D OF RECORD: STATION NUMBER: 221130 STATION NAME: MURMANSK USSR MONTH: JUL HOURS(LST): 0900-1100 WIND SPEED IN KNOTS 17-21 22-27 28-33 34-4C 41-47 48-55 GE 56 TETAL MEAN DIOFCIION | 7-12 11-16 WIND (DEGREES) | 1.7 A.3 23.7 9.1 4.2 • 6 8.8 1.9 5.5 :.9 9.4 9.0 NNE 0.5 ME 1.3 1.9 • 3 3.6 1.7 2.3 7.7 FNE 1.3 ξ 4.4 2.0 E SE • : 2.3 SE • 3 1.3 6.3 • 6 1.9 3.9 7.2 SSE 1.6 S 1.0 7.1 7.2 20.1 7.6 .. 4 • 3 9.7 5 S # 1.9 7.5 2.9 5.6 5 4 . 3 1.2 1.0 5.8 6.0 ម្តីស្ន ٠ ۴ 1.€ 13.2 • 3 6.9 2.3 3.2 i.w 1. N a 100.0 TOTALS 37.C 17.5 1.3

GLOBAL CLIMATOLOGY BRANCH USAFETAC AIR WEATHER SERVICE/MAC

PEPCENTAGE FREQUENCY OF OCCUPRENCE OF SUPFACE WIND DIRECTION VERSUS WIND SPEED FROM HOURLY OBSERVATIONS

STATION NUMBER: 221132 STATION NAME: MURMANSK LSSR PERIOD OF RECORD: HONTH: JUL HOU 78-87 FOURS (LST): 1200-1400

• • • • • • • • • • • • • • • • • • • •		• • • • • • •	••••••			D SPEED	IN KNOTS	· · · · · · · · · · · · · · · · · · ·	• • • • • • • •	• • • • • • •	• • • • • • •	• • • • • • • • • • • • • • • • • • • •	•••••
DIMECTION (DEGREES)		4 - t	7-10	11-16	17-21	22-27	28-33	34-40	41-47	4 A - 5 S	GE 56	TCTAL	MEAN WIND
4	1.5	6.5	11.8	5.2		• • • • • • •			• • • • • • •	• • • • • • •		24.8	8.8
NNE	. 7	. 1	3.3	2 • 6	• 3							1.5	9.7
NΕ	• /	. 7	2.3	1. 3								4.6	9.0
ENE	! 	. 3	1.3									1.6	8.0
£		1.7	. 7									1.6	6.4
ESE	! !	. 3		• ?	. 3							1.0	11.7
7.6	, [. 3	. 3	. 7								1.3	10.5
3.5.2	! !	1.?	5.0	. ?								3.6	7.6
S	1.3	4.7	6.2	4.2	1.7	. 3						17.3	9.3
95 h	 -	1.0	2.3	2.3	1.0							7.5	10.4
SW	! !	1.7	2.0	1.7								3.9	8.8
હંડ સ	. 3	. 7	• 3	1.0								2.3	P = 3
w			1.6									2.3	7.5
k N#	1.5	1.0	. 3	1. 9	• 3	. 3						3.9	9.2
N as	• /	2.0	1.0	. 7								3.9	7.5
NNW	. 7	5.5	4.6	2. 1	٠,							12.7	8.2
VARIABLE		• • • • • • •	•••••		• • • • • • •	• • • • • • • •	•••••	• • • • • • • •	• • • • • • • •	•••••	•••••		
, CALM	.,,,,,,,,,,	1111111	11111111	,,,,,,,,	,,,,,,,	1111111	(11/1/1/	,,,,,,,	,,,,,,,	,,,,,,,	,,,,,,,	. 3	/////
TOTALS	 5.7 	27.1	39.9	25	3.6	.7						100.0	6.9

GLOBAL CLIMATCLOGY FRANCH USAFETAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED FROM HOURLY OBSERVATIONS

AIR WEATHER SERVICE/MAC

STATION NUMBER: 221150 STATION NAME: MURMANSK USSA

STATION NUMBER: 221137 STATION NAME: MERMANSK ESSA FERIOD OF RECORD: 78-87

MONTH: JUL HOURS(EST): 1500-1700 wIND SPEED IN MNOTS 17-21 22-27 28-33 34-40 DIRECTION I 7-10 48-55 TOTAL 1 - 7 4 -6 11-16 GE 56 MEAN (DEGFEES) [WIND 12.7 8.5 1.0 9.9 HINE ?• 3 9.1 . : 1.6 3.6 8.5 ٧£ • 3 2.3 2.6 8.0 r NE 1.7 2.0 3.3 7,8 • 3 . 7 . 7 . 7 8.8 Ł 1.6 1.~ rsr 1.* • 3 6.5 SŁ 1.3 • 3 1.6 7.4 SSF 1.5 1.7 3.3 7.0 4.2 4.2 1.0 14.1 9.7 1.3 2.3 1.0 10.5 5 S W 6.9 10.0 ... 2.0 S 4 . 3 2.6 1.0 8.9 45 W . 7 . 7 2.3 2.0 . 7 1.3 4.2 9.3 . 3 • 3 a 1854 . 7 1.3 9.3 N . 1.0 1.0 • 3 • 3 4.9 10.4 *. N w VARIABLE CALF 111111 TOTALS 4.9 100.0 9.3

GLOBAL CLIMATOLOGY BRANCH USAFETAC AIR MEATHER SERVICE/MAC

SSE

S

554

SW

~ 5 W

PERCENTAGE FREQUENCY OF OCCUPRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED FROM MOURLY OBSERVATION $^\circ$

4.3

13.9

4.6

3 . 3

3.3

2.3

2.0

7.8

9.1

8.5

10.2

7.2

7 . 1

6 . 2

STATION NUMBER: 221130 STATION NAME: HURMANSK USSR

2.3

4.6

...

1.0

1.6

1 - 5

. ?

1.3

5.9

1.3

1.0

. 7

. 7

• ?

. ?

3 - 3

1.0

. 7

. 7

. 3

. 3

. 3

. 7

. 3

FERLOD OF RECOPD: 78-87

#CNTH: JUL HOURS(LST): 18U3-20CC

WIND SPEED IN KNOTS

4-6 7-10 11-16 17-21 22-27 70 77 DIRECTION ME A N (DEGREES) 1 9.3 26.9 1. ! 5.9 ř. 11.1 7.9 . 7 . 7 12.8 10.6 NNE 1.3 5.9 4.9 5.6 8.7 ΝF 1.0 3 . 3 1.0 ENE • 7 . 3 • 3 3.0 9.4 Ł . 7 1.0 • 3 6.3 ESE • 3 2.6 8.0 1.6 . 7 14.5 • 3 SE . 3

8.7 NW . 1 2.0 1.0 1.3 . 3 5 . 2 1. NW . . 4 2.3 2.3 8.5 VARIABLE CALP .3 ////// 100.0 9.0 TOTALS 39.3 3.9 27.2 24.6

TOTAL NUMBER OF OBSERVATIONS:

: . :

GLOBAL CLIMATOLOGY BRANCH LSAFETAC AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SFEED FROM HOURLY OBSERVATIONS

UITECTION IDTUDEES1 N	1-3	4-6	7-10	1.1-16	₩ I	ND SPEED							
N 1	•••••	_	7-10	1 1-16			TAI MINT						
1	1.3			1 1- 14	17-21	37 27		รับ∸ตบั	41-47	48-55	6E 56	TCTAL	ME A N W I N U
1	••-	10.9	9.2	7.9	• • • • • • • • • • • • • • • • • • •	••••••	• • • • • • • •	• • • • • • •	• • • • • • • •	• • • • • • • •	• • • • • • • • •	29.9	8.5
TIME		,	7.2	, ,	• '							29.4	6.2
•		• 7	4.6	3. 5								9.2	13.1
NE I	. 3	2.3	3.6	1.0								7.2	8.3
i		~ • •	3.0	•••								7	
I NE	` • 7	1.0	1.3									3.0	5 + 9
E		1.7	• 7	1.6								3.3	9.6
1												,,,	
FSE 1	• 3	1 • 7	• 3									2.0	4.7
SE I	1 • C	1.6	. 7									3 . 3	5.0
!													
'SE	+ 3	• 7	2.5	1.6								₩.6	9.9
s i		6.6	4.7	2 • 3								13.2	7.8
1 55⊮ 1	. 3	2.3		. 7									•
1	• 3	4 • 3		• /								3 . 3	7.0
S	• 2	1 • G	• 7									2.0	5 • 3
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		. 7	• 3									1.3	5.3
i		• •	• 3									1.5	2.00
w		. 7	• 3	• 7								1.6	8.8
h Nu i	. 2	. 3										. 7	3.0
1													
Nn	• 3	1 * 7	1.0	1.6								4.3	9.7
NNH I		3 . 3	4.9	2 · b	. 3							11.2	9.0
1													
AVELABRE [• • • • • • • •	• • • • • • •			• • • • • •	••••••	••••••	• • • • • • •	• • • • • • • • •	• • • • • • •	••••••	• • • • • • • •	
CALP /	,,,,,,,,	,,,,,,,,	,,,,,,,,	111111111	111111	,,,,,,,	,,,,,,,,	,,,,,,,	///////	,,,,,,,	,,,,,,,,	1 • 3	,,,,,,
TOTALS 1	·	35.05	33.9	27.0	1.0							100.0	8 . 2

GLUBAL CLIMATOLOGY PRANCH LSAFETAC AIR WEATHER SERVICE/MAC PERCENTAGE FREQUENCY OF OCCUPRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED FROM HOURLY OBSTRUATION:

STATION NUMBER: 221130 STATION NAME: MURMANSK USSR PERIOD OF RECORD: MONTH: JUL HOURS(LST): ALL WIND SPEED IN KNOTS 17-21 22-27 28-33 34-40 DIFECTION ! 7-1C 11-16 41-47 4: -55 GE 56 TOTAL MEAN (DECREES) | WIND 7 25.2 9.5 5.5 €.5 NNE 2.7 • 1 9.8 8.9 NΕ . 5 2.3 . 7 5.3 .6 ENE 1.1 1.1 . 1 . n 2.6 7.0 Ł . 6 . 3 1.8 7.6 • . • LSE . 7 . 3 . 1 .0 1.3 6.2 S٤ . 7 . 4 • 1 . 1 1.5 7.0 :50 1.7 1.4 . 4 . 1 • 2 3.4 9.1 S 1.1 6.1 • 3 16.4 7.9 5.3 2.1 1.1 . 3 7.5 7.5 . ? . 9 5 4 . 7 2.3 8.2 • 3 . 1 1. S # . 6 . 4 1.9 7.1 1.3 • 5 . 7 . 5 .0 2.5 7.2 ٠. ٠, el falla . 4 . 4 • 2 • 7 1.9 9.7 . 5 1.4 1.6 1.0 . 1 4.7 8.5 1. N h • 1 8.0 V/RIABLE CALM 1.2 ////// TOTALS 34.6 36.1 16.6 2.2 • 2 100.0 R . O

GLUSAR CLIMATULOGY BRANCH PERCENTAGE F USAFETAC AIR WLATHER SERVICLYMAC

PERCENTAGE FREGUENCY OF OCCURRENCE OF SURFACE WIND URRECTION VERSUS WIND SFEED FROM HOURLY OPSERVATIONS

STATION NUMBER: 221130 STATION NAME: MURMANSK USSR TOTURETS) 1 WIND 7.6 6.0 1.141 1.5 4 . 7 3.6 2.3 11.7 7.5 1 • C . 3 5.3 . 7 3 - 3 6.0 CNE . 1 :.-5 . 1 . 7 2.3 į :.-. 7 1.7 6.8 : 51 . . 7 1.7 4.8 1.7 5.7 Sif . 1 2.7 551 1.3 . 3 1.0 3.0 8.0 7.0 7.3 1.3 14.5 < 5 A 4 . 6 . 7 6.6 7.3 5.2 . 7 1.3 6.7 K5 . . -. 1.-. : 1 . 7 10.0 1." 1.3 1.0 . . . 7 9.4 , ٠, 4.3 1. 5 1.3 7.0 ... THITARLE CALO 4.9 ////// TO TAKE? 11.1 100.0 6.7

TOTAL NUMBER OF BUSHWALLOW, : 7 ()

GLOSAL CLIMATOLOGY GRANCH USAFETAC AIR ALATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIPECTION VERSUS WIND SPEED FROM HOURLY ORSERVATIONS

STATION NUMBER: 201130 STATION NAME: MURMANSK USSR

IPECTION 1 DEGF:EST	1 - 3	4 - <u>E</u>	7-10	14-16	17-21	ND SPFED	IN KNOTS 28-33				GE 56	TOTAL	MEAN W140
N .	2.3	1.;	3.0	7.3		•••••				••••••		15.8	7.1
/Nz	. ,	4 . 3	3.9	1.5								13.5	7.5
148		1 • 3	1.0	. 7								3.1	° • 2
FAE	. 7	1.6	. 7									2.7	5.3
L j	1.7	. 7	. 3									2.3	3.4
Γ5ξ		٠,										• 7	4.0
SE	• ?	٠ ٦	• 3	• 3								1.3	6.5
SSE	. 5	1.3		. 7								2 • 3	7.1
5	1.1	11.2	€.6	1. 0	• 3							20.7	€.5
cs.	. 7	6 • 5	5.44	. 7								13.A	6.7
5 m	1 • •	1.0	. 7									3.0	4.7
NSW [. •	1.0	. 1								2.0	8.7
- ;		• 7	1.0	1.0								2.6	9.5
NW		. 7	1 - 3	7.0								3.0	10.5
Parks		1.7	2.6	1.0								4.6	9.4
200		J.	2.5	1.0								5.9	7.4
VARIABLE	• • • • • • • • •	• • • • • • •		•••••	• • • • • • •		•••••		• • • • • • • •		•••••	•••••	•••••
ine j.	111111111	,,,,,,,	11111111	11111111	1111111	///////	,,,,,,,,,	1111111	1/1/////	7//////	11111111	4.6	111111

TOTAL HUMPER OF O SERVATIONS: 134

GLOHAL CLIMATPLOGY BRANCH USAFETAC AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED FROM HOURLY OBSERVATIONS

PEPIDD OF PECORD:

STATION NUMBER: 201130 STATION NAME: MURMANSK USSR

#CHIMU OF PELOHD: 78-87

MONTH: AUG HOURS(LST): 0600-0800

| | WIND SPEED IN KNOTS

UISECTION | 1-5 4-6 7-10 13-16 17-21 20-23 20-33 HIND IDEGREES) |N 1. 17.1 6.9 o . o 4.3 2.6 1.3 1.5 2.6 7.0 7.2 8.3 1. N.E. 3.9 7.5 ΝE 1.? . 1 FNF 1.5 1.0 . 3 2.6 7.3 1.6 4.4 Ł 1.0 3 . 3 USE . 3 • 7 . ? 1.0 7.3 . 7 SF . 7 3.9 7.3 555 · . . 1.0 20.1 6.5 7.9 2.0 9.2 1.3 1.0 6.9 1.3 15.5 7.1 6.4 1.3 • 3 3.7 • 3 5.0 .54 . 3 • ? 2.0 10.9 1.3 • 3 1.5 3.9 9.5 1.0 1.6 SNA 1.6 1.3 • 3 14 14 • 3 1.1936 3.9 1.6 6.2 VIGIALLE CALM 41.0 17.8 100.0 TOTALS 1.0 32.6

GLOGAL CEIMATOLOGY BRANCH USAFETAC

PERCENTAGE FREQUENCY OF OCCUPRENCE OF SUPFACE WIND DIRECTION VERSUS WIND SPEED FROM HOURLY OBSERVATIONS

AIR WEATHER SERVICE/MAC

PECIED OF RECORD: 79-87 MONTH: AUG FOURSILST): 0900-1100 STATION NUMBER: 221130 STATION NAME: MURMANSK LSSR 41-47 48-55 GF 56 (DEGREES) 1 WIND N 1 1+6 5+9 8.0 MAL 1.3 3.3 2.0 6.9 10.1 ٤٠^ 4.6 8.0 1.0 2.7 ENE • 3 6.2 . 7 ٤ . 3 8.0 . 3 . 7 ESE . 3 1.0 4.0 F.0 5€ . 7 . 3 1.3 2.0 6.0 SSF 1.7 . 7 5 9.5 23.5 7.4 2.9 ۶. 2.0 . 3 3.3 10.7 • 3 • 7 1.3 7.5 WSW . 7 • 3 , 7 . 7 . 3 2.0 6.3 2.0 9.8 's 14 m 2.0 2.9 6.9 Nie 4 - 3 2.3 2.6 6.2 10.0 NNA 3.6 2.3 1.0 6.7 VARIABLE CALM 1.6 ////// 101415 31.0 21.6 1.0 100.3 7.8

GLOWAL CLIMATOLOGY BRANCH PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED SAFETIAGE.

AIR WEATHER SERVICE/MAC

STATION NUMBER: 271137 STATION NAME: MURMANSK USSR

FEMIOD OF RECORD: 78-87
MONTH: AUG HOURS(LST): 1200+1400

									MONTH:	A U G	HOURS ILS	11: 1200-	1400
UIRECTION (DEGREES)		4 -6	7-13	11-16	4IN 17-21		IN KNOTS 29-33	34-40	41-47	48-55	G€ 56	TCTAL 3	MEAN Winu
fy.	1.5	4.6	4.6	5.9	. 3	•••••	• • • • • • • • •			• • • • • • •	•••••	16.4	9.4
t. N.E	!	1.3	5 • 0	1 • €	. 7							4.9	9.9
t+E	! !	i.r	2.3	• 3								3.6	8 • 2
INE	j	1.3	1.3	• 3								3.0	7 • 1
Ł	1	1.5	. 3									1.3	5.5
FSE	! !	1.0	. 3									1.3	6.5
S.E.	.7		1.0									1.6	6.0
5.5.8	1	2.0	1.6	• 3								3.9	7.2
S	1.5	5.2	8.5	4.9								20.3	8.4
524	• ?	3.6	1.6	3.6								9.2	8,9
S #	1.0	1.7	1.6	2.0	. 3							5.9	9.1
₩ S ₩	• 7	. 7	1.3									2.3	7.7
*	• 1	2.0	. 7	1.3	. 7							4.9	9.5
SC Se Se	ì	1.7	1.0	. 3	. 3							3.9	8.6
Ēr in	.,	• 7	1.3	2. 7	. 3							4.9	10.3
ts (4 W	1.0	3.4	2.3	3. €	. 7							10.5	8.9
JUGATANV	i	•••••	• • • • • • • •	•••••	• • • • • • •	•••••	•••••	• • • • • • •		• • • • • • • •	•••••	• • • • • • • •	
	†//////// [(/////////	dinni		''''	,,,,,,,,	1111111	////////	////////	////////		111111
TOTALS	6.6	30 . 2	31.6	25.2	3.3							100.0	8.5

CLOBAL CLIMATOLOGY PRANCH PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED USAFETAC FROM POURLY OBSERVATIONS

AIR WEATHER SERVICEAMAC

TON NUMBER		212011							MONTH:	AUG	D: 78. HOURS(LS	11: 1500-	
IFECTION DEUMESI	1 - 3	4 6	7-10	1 1- 16	HIN 17-21	D SPEED 22-27	IN KNOTS 28-33				G£ 56	TCTAL	MEAN WIND
1.		3•E	5.6	5. 6	7	•••••	•••••	• • • • • •	• • • • • • • •	• • • • • • •	••••••	15.4	9.8
INE !	• 3	2 - 3	3.6	2.0	.3							8.5	9.0
NE I		1.3	2 . 3	1.0								4.6	8.7
ENE	. 7	. 3	1.0	. 7								2.6	7.3
١ ا		1.0	1 . 3	• 3								2.6	7.8
rse !		. 3	1.0									1.3	8.3
55	• 3	• 7	. 7									1.5	6.4
SSL		1.7	2.6	• 3								4.3	8.5
s	• ?	4.0	4.6	4.6	. 3							14.9	8.7
SSk j	• 1	2.0	3.6	2 • 3								8.2	9.3
54	• 3	1.6	2.6	1.6								6.2	9 • 5
NSW		1.3	1.3	1.1								3.9	9 . 5
-]	. 7	:."	2.3		. 3							4.6	7.5
284 I	• 3	. 7	• 3	1.5	• 3							2.6	10.1
48	• 3	1.3	1.3	2.0	. 3							5.2	10.3
n.N.w	1.,	4,3	2.6	3.6	1.0							12.8	A . 6
VARIABLE	• • • • • • • • •	• • • • • • •	•••••	•••••	• • • • • • •	•••••			• • • • • • • •		•••••		
CAL" .	(1///////	,,,,,,,	,,,,,,,	,,,,,,,	,,,,,,,	,,,,,,,	,,,,,,,,,	,,,,,,	,,,,,,,	,,,,,,,	,,,,,,,	. 7	111111
TOTALS	5.2	27.9	36.7	26.2	3.3							100.0	8.9

GLOBAL CLIMATOLUGY BRANCH USAFETAC AIR BEATHER SERVICE/MAC PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED FROM MOURLY OBSERVATIONS

LMIDD OF RECORD: 78-87 #ONTH: AUG HOURS(LST): 1800-2000 #IND SPEED IN KNOTS 1-16 17-21 22-27 28-33 34-40 41-47 48-55 GE 56 TCT** STATION NUMBER: 221133 STATION NAME: MURHANSK USSR DIFECTION 7-10 11-16 (DEGREES) WIND 9.6 19.8 1.3 NNE 3.7 4 . C 4. C • 3 11.6 9.2 ΝE 1.3 5.3 8.9 1.3 3.0 13.0 ENE . 3 1.5 . 7 1.0 2.3 7.1 E • 3 • 3 2.3 5.4 [SE 1.7 1. . 7 2.6 ١٤ • 3 6 . A 558 1.7 1.7 . 7 4.6 6.9 5.3 4.0 • 3 14.5 2.0 3 . C 2 • C • 3 7.9 8.9 SW . 7 2.0 ī.6 . 7 1.3 9.7 * 5 W . 7 . 7 1.0 4.3 . : 1 . 7 7.3 . 3 w 1. W • 3 1.0 7.3 . 7 1.3 2.6 . 3 7.3 6.9 9.4 1.4 LNW 1.3 2.3 . 3 9.7 VARIABLE CALM .7 ////// TOTALS 53.7 100.0 8.7

TOTAL NUMBER OF ORSCHVATIONS: 303

GLOBAL CLIMATCLOGY BRANCH USAFCTAC AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED FROM MOURLY OBSERVATIONS

STATION NUMBER: 221130 STATION NAME: MURMANSK USSR

PERIOD OF RECORD: 79-87 MONTH: AUG POURS(LSI): 2100-2300

							IN KNOTS						
IRECTION DEGREES 1	1-3	4 - c	7-10	11-16	17-21	22-27	28-33	34-40	4!-47	48-55	GE 56	TETAL 2	MEAN WIND
N I	1.5	2.9	5.9	2.6	1.0							14.7	8.7
NNE		4.5	2.6	2.3	e 7							17.4	8.8
NE		2.3	2.9	. 7								5.9	7.8
ENE	. 7	2.3	2.0	1.0								5.9	6.9
F	. 3	3.3	1.0	. 3								4.9	6.3
FSE	• 3	1.0	1.6									2.9	6.9
SE	• !	• 3	• 3	. 7								1.6	8.4
SSE		. 7	2.9	• 3								₹.0	8 . 3
s	1.6	è.₽	5 . 5	2.9								18.9	7.2
559	. 7	3.9	. 3	• 3								5.2	5.0
Sw	• 3	2 • 6	1.0	. 3								4.2	5.7
พรพ	. 7	1.0										1.6	4.0
• [• ?	. 7								1.9	12.0
- No.	• 3	1 • C	. 7	• 3								2.3	6.6
NK I		1.0	1.0	1. 3								3.3	9.2
UNW	1.0	4.6	3.9	2.9	. 7	•7						13.4	e • 8
VARIAPLE	• • • • • • • • •	• • • • • • •		••••	• • • • • • •	•••••	• • • • • • • • •	• • • • • • •		• • • • • • •	•••••		•••••
CALM .	,,,,,,,,,	///////////////////////////////////////	11111111	11111111	1111111	(111111)	,,,,,,,,	//////	,,,,,,,,	1111111	,,,,,,,	• 7	111111
TOTALS	7.3	46.4	31.0	16.6	2.3	. 3						100.0	7.6

GEOBAL CLIMATOLOGY BRANCH USAFETAC AIR WEATHER SERVICE/FAC

1 ,

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED FROM MOUNLY OBSERVATIONS

PERIOD OF RECORD:

STATION NUMBER: 201130 STATION NAME: MURMANSK USSR

MONTH: AUC FOURSILSTI: #IND SPEED TN KNOTS

DIPLOTION 1 1-3 4-6 7-10 14-16 17-21 22-27 28-33 34-40 41-47 48-55 GF 56 TOTAL MEAN IDEGREES I. . I . WIND 14 1.3 5.5 5.0 4.1 . 4 16.3 8 . 4 . 3 8.9 8.6 NAF . 4 2.9 3.2 2 . 1 ŊF 1.7 1.9 . 7 4.5 7.9 1.1 3.2 6.9 Ł . 7 . 1 2.1 6.1 • 3 1.1 FSE . 2 . c .5 1.5 5.7 . 2 . 7 . 5 • 2 1.6 6.6 SΕ 1.3 3.5 7.5 1.55 1.4 . 5 . 2 1.4 7.8 6.9 2.7 18.9 7.4 5 . 2 10.8 7.5 554 4 . 5 3.7 1.7 • 3 5 % 1.1 1.1 • 1 4.4 7.8 1.9 7.6 . 7 3 - 1 8.9 • 3 • 2 9.4 . 9 ٠, 1.2 3 . 3 1. NW . 2 . 1 4.9 9.5 . . 1.7 1.5 . . 16% 1.3 TINA 2 . 5 8.0 1.6 CALH i*mmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmm* 2.3 ////// •0 100.0 TOTALS 32.3 15.5 1.8

GLOBAL CLIMATOLOGY BRANCH USAFETAC ATR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SFEED FROM MOUNLY ORSERVATIONS

STATION NUMBER: 271130 STATION NAME: MURMANSK USSR

PERIOD OF RECORD: #ING SPEED IN MNOTS

1 1-7 4-6 7-10 11-16 17-21 22-22 20 21 DIRECTION WIND COECUSEST 1 7.1 11.6 1.7 N 1.4 6.2 2.1 . 3 2.4 4.3 2.1 THE • ! HE 1.7 . 3 2.4 4.6 6.7 1.0 • 3 . 3 • 3 ENE 1.0 3.3 • 3 ٤ rse 1.0 4.7 1.0 SE i . ~ 2.7 , St . 7 • 3 . 3 • 3 6.6 6.8 49.5 8.6 9.9 . 3 5 2.4 9.2 . 7 1.1 15.1 6.6 55# 8 . 2 4.5 1.4 3.4 8.8 1.4 1.0 1.0 3.1 7.3 4 S # . 7 . 3 1.7 . 3 7.8 i • 0 2.4 • 3 • 3 4 . 8 . 3 1.4 1.7 3.4 10.4 4 15 14 1.4 2.4 1.7 8.2 10.5 la si 2.1 9.7 • 3 2.1 1.7 2.4 MAR VARIABLE CAL 3.8 ///// 100.3 3.1 TOTALS 26.7 15.8 1.0 37 . 7

GLOBAL CLIMATOLOGY PRANCH USAFETAC AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SFEED FROM HOURLY OFSERVATIONS

region of recogn: 77-86 STATION NUMBER: 221133 STATION NAME: "URMANSK USSR MANTH: SEP HOURS (LST): 0300-0560 41-47 41-55 GF 56 (UFGREES) | **W1NO** 10.6 NNE . 7 1.0 • 3 . 3 3.4 5.4 NE . 7 , 7 1.4 1.7 6.0 ENC . ! . 7 . 7 ٤ . 7 LSE . 1 1.0 • 3 9.3 Sŧ • 3 SSE 1.0 . 3 • ! 1.7 5.2 2.1 12.3 ņ . Q 6.1 1.0 31.1 1.9 5.5 1.7 1.0 . 7 . 3 9.7 S * . . . 7 1.4 1.7 4.1 8.8 . SW 7 . 7 2.0 . 3 4.1 10.4 1. 1.7 2.4 . 3 4.5 10.1 N is W я.9 fe in 1.0 . 7 1.4 3.1 6.5 . 7 7.1 NAM 1.7 . 3 . 3 10.2 WARTABLE CALM 3.8 ///// .3 .3 100.0 TOTALS 26.3 21.1 3.1 7.6

INTAL NUMBER-OF ORSERVATIONS: 293

GLODAL CLIMATOLOGY DRANCH USAFETAC AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED FROM MOUNLY OBSERVATIONS

STATION NUMBER: 221133 STATION NAME: MURMANSK USSR

STATION NUMBER: 221133 STATION NAME: MURHANSK USSR PERIOD OF RECORD: 77-86
MONTH: SEP HOURS(EST): 0600-0800 WIND SPEED IN MNOTS 17-21 22-27 28-33 34-40 41-47 48-55 GF 56 TETAL UIPECTION | 7-1C 11-16 WIND N .u u.c 1.u 1.u .u 1.4 3.2 . 4 2.5 ANS . 4 4.0 . 7 NE . 4 4.4 LN: 1.4 6.0 £ . 4 2.0 . 4 1.9 6.4 SF . 7 . 7 1 - 1 . 7 2.A 9.8 5 S F 1.1 4.9 1.1 27.8 7.8 S 2.1 11.6 6.1 12.7 6.5 5 . 7 3.9 5.5% 1.1 1.1 4.2 9.0 1.1 SW i.1 2.1 2.8 8.6 -5-1.1 1.4 . 4 ٠.6 10.3 **k** 1.4 1.4 2.5 . 4 SNW 6.7 9.5 2.1 7.9 Fe be 1.4 2.1 3.2 2.5 9.2 tet, a 2.5 8.7 2.8 ///// CALM 100.0 7.6

GLOPAL CLIMATOLOGY BRANCH USAFETAC PERCENTAGE FREQUENCY OF OCCURRENCE OF SUPFACE WIND DIRECTION VERSUS WIND SPEED FROM MOUNLY DESERVATIONS

FED10D OF RECORD: 77-86

AIR WEATHER SERVICE/MAC

1

STATION NUMBER: 221130 STATION NAME: MURMANSK USSP

-,---

MONTH: SEP HOURS(LST): 0900-1100 #IND SPEED IN KNOTS 11-16 17-21 22-27 28-33 34-40 DIFLCTION I 4-6 41-47 44-55 GE 56 TETAL 7-10 IDEGREES) 1 DAIM A . 4 ANE . 7 • 3 3.1 7.2 . . 1 ΝE 1.0 • 3 4.8 • 3 ENE . : . : • 3 1.0 4.7 . 3 1.0 Ł . 7 7.3 ESE • 3 . 7 1.4 5.5 ۶Ł • 3 • ? 2 . 1 3.4 6.5 5 5 5 . 7 . 3 7.6 5 3.8 12.0 11.7 5. 0 1.0 34.4 554 2.1 4.5 3.4 • 3 12.4 7.3 . 7 3.1 13.7 1.0 3.4 9.2 1.4 1.0 1.4 3,4 1.0 • 3 6.5 9.0 . 3 2.7 9.5 is faw . 7 1.4 . 7 $z \cdot 1$ 3.4 1.3 A . 3 NW 6.9 1. N k 3.1 1.4 3.4 9.3 : . 1 • 3 8.3 CFLM (mmmmmmmmm) 2.4 ////// 103.0 7.8 17.2 3.1 1.7

TOTAL NUMBER OF OUSFROATIONS: 291

GLJBAL CLIMATOLOGY EKANCH USAFETAC AIR WEATHER SERVICLYMAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED FROM POURLY OBSERVATIONS.

STATION NUMBER: 221130 STATION NAME: MURMANSK USSR

FERIOD OF RECORD: 77-86 MONTH: SER HOURS(LST): 1200-1400

• • • • • • • • • • • • • • • • • • • •		• • • • • •	•••••	• • • • • • • •	 11u	ND SPEED	IN KNOTS	• • • • • • •	• • • • • • •				••••••
UIFECTION (DEGFIES)		4-6	7-10	11-16	17-21		28-33	34-40	41-47	4 8 −55	GE 56	TUTAL	ME A N W I N U
۸	1.5	4.7	2 · t	1.5	.7	• • • • • • •			• • • • • • • •	• • • • • • • • •		10.9	7.3
NE	İ	1 • 9	1.8									3.6	7.2
e, F	!	1.1										1.1	5.3
ENE	<u>.</u>	. 7	. 4									1.1	6.7
٤	! !		. 7	. 4								1.1	9.3
۶ ټو	i !		. 4	. 4								. 7	10.0
3.5	1 1	, 4		. 4								. 7	a'ù
5.5.8	!	1.5	1 • 8	. 7								4.3	9.4
5	.7	c.4	6.9	e. 4	1.8							26.5	9.7
e 5 a		3.6	3.€	ž• 2	1.5							12.4	٥.٩
Sw	. 4	1.5	2.0	. 7		.4						5.5	S . 7
¥ 5 ₩	. 7	1.1	2.2	. 7	. 4							5.1	۴,4
•	, !	. 4	2.9	1.5	1 • 1							5.8	12.1
W N a		. 4	1.8	2.7								5.5	11+1
N. W	. 7	. 4	1.8	2.6		. 4						5.9	10.9
*· N.a	1.1	4.7	1.8	1.1	• 4	. 4						R. 0	8 • 2
VARIABLE	: •••••••• !		******			•••••		• • • • • • •	• • • • • • •				
CELM	1//////////////////////////////////////	1111111	11111111	////////	///////	11/1///	,,,,,,,,	//////	///////		,,,,,,,	1.1	111111
TOTALS	, c	24.9	51.8	23.4	5,8	1 • 1						100.0	9.0

GLOBAL CLIMATOLOGY FRANCH USAFETAC AIR WEATHER SERVICE/MAC

FERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIPECTION VERSUS WIND SPEED FROM MOURLY OPSERVATION $^{\circ}$

PER100 OF RECORD: 77-86

STATION NUMBER: 221130 STATION NAME: MURMANSK USSR

#CNTA: SEP HOURS(LST): 1500-1700 #IND SPEED IN KNOTS 17-21 | 22-27 | 28-33 | 34-40 TOTAL MEAN 1 - 3 DIFECTION I 4-6 7-16 11-16 41-47 48-55 GE 56 I DE GPEFS I WIND 2.4 .7 9. ı, 2.4 9.9 9.4 3.1 . 3 3.4 . 7 1.7 1C -8 N. N.E 1.0 1.0 A . 7 ٠, . 3 . 3 taF. . 1 . 7 1.0 10.0 FNE . 7 . 3 2.4 6.6 Ĺ . 7 . 7 f SE . 7 . 3 1.0 6.0 SŁ • ! • 3 . 7 0.0 5 S E 1 . 7 3 - 1 • 3 5.4 P.7 S . 7 7 • °, 7.5 6.1 2.4 24.5 9.9 1.4 18.9 9.4 . 7 3 . 7 2.0 3 - 1 5 S W 5 6 1.7 2.4 . 7 6.5 10.0 1 . 7 . 7 3.4 9.3 4 5 K 1.7 6.1 8.4 2.0 • 3 7.8 2.4 1.7 1.4 1.4 4 . 2 9.4 - 1. W 1.4 1.7 2.7 1.0 2 • C . 7 6.5 7.8 Ne t. N N 1.7 1.7 2.7 1.0 9.9 VARIABLE CALM 1.4 ///// TOTALS 20.6 7.5 . 3 100.0 9.3

GLOWAL CLIMATOLOGY FRANCH PERCENTAGE FL LSAFETAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED FROM HOURLY OBSERVATIONS

- 3

ATR WEATHER SERVICE/MAC

PERIOD OF RECORD: STATION NUMBER: 221130 STATION NAME: MURMANSK USSR HOURS(LST1: 1800-2000 WIND SPEED IN KNOTS 17-21 22-27 29-33 34-40 DIPECTION I 7-10 11-16 41-47 44-55 GE 56 TCTAL MEAN 4 -6 IDEGPEEST 1 MIND 9.1 4.0 * NF 1.6 . 7 . 4 2.9 8.8 ΝE 1.1 1.1 2.5 7.7 . 4 £ NE 1.4 . 4 2.2 9.0 Ĺ 1.4 . 7 2.9 6.8 f SE . 4 . 7 1 - 1 10.8 5 . 4 9.9 €.1 1.4 20.2 1.4 4 . 7 2.2 3.2 11.9 55W 8 . 1 S w 1.4 2.5 6.9 7.8 1 - 1 1.8 1 . 4 45. 2.9 7.3 1.4 1.1 1.1 9.3 . Nie 2.5 1.1 NH 2.5 2.2 6.9 9.7 VARIABLE 1 CALIF TOTALS 100.0

GLODAL CLIMATOLOGY BRANCH USAFETAC ATR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED FROM MODILLY OBSERVATIONS

STATION NUMBER: 221133 STATION NAME: MURMANSK USSR

#IND SPEED IN KNOTS

DIPLOTION | 1-5 | 4-6 | 7-10 | 11-16 | 17-21 | 22-27 | 22-27 | 22-27 | 22-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23-27 | 23 IDEGREES! 1 WIND N 1 • 4 5.4 2.0 1.4 10.1 PINE 1.7 • 3 2.4 4.9 NE : . 7 . 3 2.0 6.0 ENE 5.3 Ł 4 . 7 • 3 • 3 7.9 2.4 ESE. . 7 . 3 . 3 1.4 5.5 SF 1.0 . 7 . 3 6.6 • 3 2.4 SSE . 7 . 7 . 7 1. C 3.0 8.0 9.1 5 2.0 11.8 € . 4 1.0 30.7 R.6 554 1.2 t . 4 2.4 2.7 . 3 12.9 7.9 SW 1.0 2.4 1.4 5 . 7 W 5 W . 3 • 3 9.0 1.0 í. C . 3 4.1 11.9 . 3 1.0 2.0 3.4 11.8 1.4 2.4 2.7 1.0 7.8 10.8 t. Na CALM . 3 100.0 . 3 8.1

GLUBAL CLIMATOLOGY BRANCH LSAFETAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED FROM HOURLY OBSERVATIONS

AIR WEATHER SERVICE/MAC

STATION NUMBER: 221130 STATION NAME: MURMANSK USSR

FERIOD OF RECOPD: 77-86
MONTH: SEE HOURS(LST): ALL #IND SPEED IN KNOTS

DIFECTION | 1-3 4-6 7-10 11-16 17-21 22-27 28-33 34-40 41-47 48-55 GE 56 TOTAL IDEGREES) 1 ¥ WIND P4 • 2 10.0 NNE . 7 • 3 •0 NE . 3 5.6 . 3 ENE • 2 . 7 6.6 . 7 .0 ٤ . . • 7 . 2 1.5 6.8 FSE . ? . 2 • c . 5 . 1 6.2 . 5 SE . 1 • 7 . 1 1.4 5.8 SSE : . 2 1.2 ٠ ٤ • t • 1 8.5 S 9.1 . 1 • 3 • 0 • 3 . 7 . 1 1.1 1.5 .7 . 4 5.4 9.8 6. N. h . 4 . . 1.7 1.7 . 1 . 3 4.7 9.4 . 7 . 3 NL 2. 3 . 5 1.6 2.1 7.2 9.6 *. N = . 1 VERTAPLE CALM 2.2 ////// TOTALS 4.1 • 7 100.0

GLDLAL CLIMATOLOGY SRANCH LSAFETAC AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SFEED FROM HOURLY OBSERVATIONS

ATION NUMBER:	271130	211100	NAME:	MURM AN SK					MONTH:		HOURS (LS1	-86 (): 0000-	D2 OG
DIPECTION	1-3	4-6	7-10	1 1- 16	wIt		IN KNOT	5	41-47			TOTAL	MEAN WIND
N]	. 7	3.7	1.0	• • • • • • • • •	. 3		•••••	• • • • • • •		• • • • • • • •	******	5.7	6.1
NNE !	. 7	1.3	• 3	. 3	. 3							3.0	7.0
NE.	. 7	. 7	. 7	• 3								2.0	7.0
ENE !	. 7	. 7	1.3									2.7	6 • 3
L !	• :	1 • 3	. 3									2.0	5.0
FSE													
SE !		. 3	1.0									1.3	7.5
SSE		1.3	.7	1.7	. 7							4.3	10.8
s !	2.7	10.3	11.3	7.1	1.0							33.0	8.5
SSW !	. 7	0.7	6.7	4.3	1.7							19.3	9.4
S 🐆 📗		1.0	. 3	. 3	• 3							3 • C	7.7
M.S.W	. *	1.0	1 - 3		. 7							3.3	9.2
w !	• 3	. 3	• 3	1. 7	. 7	. 3						3.7	13.7
-NW		. :		7. 7	. 7	•						4.7	14.6
N'k		2 • 7	1.3	. 3	:.0		. 3					5.7	10.5
1/NW {		1.0	1.0	1.0	• 3							3 . 3	0.0
VIRIABLE	•••••	• • • • • • •	•••••		• • • • • • •	•••••	•••••	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • • •		
C/LM //	11111111	,,,,,,,	///////	,,,,,,,,	,,,,,,,	,,,,,,,	,,,,,,,	(1/1/1/	,,,,,,,	,,,,,,,	,,,,,,,	3.0	,,,,,,
TOTALS	6.7	13.0	27.7	21.3	7.7	• 3	. 3					100.0	8.8

GLOBAL CLIMATOLOGY HRANCH LSAFETAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED FROM HOURLY OBSERVATION $^{\circ}$

AIR WEATHER SERVICE/MAC

STATION NUMBER: 271130 STATION NAME: MURMANSK USSR PETIOD OF PECOPO: MONTH: OCT HOURS(LST): 0300-0500 wIND SPEED IN KNOTS 17-21 22-27 28-33 34-40 DIFECTION TOTAL 1 - 3 4 -6 7-10 11-16 41-47 48-55 GE 56 MEAN IDE GREES) MIND 5.2 7.3 . 7 1.0 . 3 20% NNF :. -1.0 3.9 1.0 8.3 ИE . 7 . 7 1.0 2.3 5.7 1 - 3 1.3 FILE 2.6 3.3 . ? Ł . 7 1.0 6.7 . 3 . ? FSE . 7 1.3 ٠.0 SE . 3 1.0 1.3 7.5 SSF . 7 2.2 1.0 . 7 5.2 9.5 s . 7 1C • 1 9.5 34.3 9.0 2.9 554 1.0 4.5 3.6 . 7 13.1 8.6 . 7 1.3 . 7 1.0 . 3 SW . 3 4.2 10.2 1.3 1.3 . 7 . 7 . 7 45 W 3.6 9.6 . 7 . 7 1.3 1.3 . 3 4.2 13.8 ٠, 1.0 2.9 LNA . 7 . 3 14.1 N. • 3 . 7 1.0 1.3 . 7 NNX 1.3 1. 3 • 3 STABLE CALM 3.6 ////// TOTALS 29.1 100.0

GLOBAL CLIMATOLOGY BRANCH USAFETAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND CIRECTION VERSUS WIND SPEED FROM MOURLY OBSERVATIONS.

PEPICO OF FECOPO:

AIR WEATHER SERVICE/MAC

(

 \circ

(:

()

(

STATION NUMBER: 221130 STATION NAME: MURMANSK USSR

MONTH: OCT HOURS(LST): 3600-0800 WIND SPEED IN KNOTS

DIPECTION | 1-3 4-6 7-10 11-16 17-21 22-27 2P-33 34-40 41-47 48-55 GE 56 TOTAL MEAN IDEGDEEST 1 WIND .7 1.0 . 7 3.7 10.6 . 1. TINE 5.4 1.7 . 7 6.4 6.6 . 7 1. . 3 1.7 5,6 ۸E E NE 2.0 . 7 . 7 3 . 4 7.4 . 3 . 7 5.0 . 7 5.0 1.58 . ? . 3 8.7 ٦F . 3 . 3 B.5 1. S.F 1 . 7 2.0 • 3 A . 9 :.7 10.4 10.4 9.1 1.0 . 3 5 7.6 1.0 4.4 2.3 16.4 :54 3 . 1 . 7 5.7 8.5 24 . 3 2.7 . 7 1.7 . 3 • ? 2.0 3.4 12.1 . 7 • 3 ~ . 3 • 7 • 3 1.7 1.3 . 3 4.7 13.9 . 7 . 7 2.3 . 7 • 3 4.7 12.9 NW 1.0 1.0 • 3 • 3 • 3 10.9 *. N . . 7 ¿. 0 1 . 7 CALM 2.0 ////// TOTALS

GLOBAL CLIMATOLOGY PRANCH USAFETAC AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED FROM MOUNLY DESERVATIONS

									MONTH:	OF PECOR OCT	D: 77- HOURS(LS1		1100
	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • • • •		ND SPEED			• • • • • • • •	• • • • • • • •	• • • • • • • •	• • • • • • • •	• • • • • • • • • •
DIFECTION (DEGREES)	1 - 3	4 -6	7-10		17-21	22-27	28-33	34-4C	41-47	49-55	GE 56	TCTAL	ME A N W I N D
	• • • • • • • • •	• • • • • • • •	• • • • • • •				••••••	• • • • • • •	• • • • • • •	• • • • • • • •	• • • • • • • •	• • • • • • • •	• • • • • • • • • •
N	. 7	3.0		1.0	1.0							5.6	8.9
##E	• 3	1 . 7	1.0	• 3								3.3	6.2
NE.	• 7	1 . 7	1.0	. 7								4.0	6.7
THE I	• 2	. 3		• 3								1.2	8.0
E 1	. 7	• 7										1.0	2.7
ESE I		. 3										• 3	4.0
SE I		7	• 7									2.3	5.4
rsr I	• '	. 7	5.0	1 • C								4.0	٥.0
s . [1 • 3	17.0	11.3	9. 3	1.7							36 . B	ė.9
556	2.0	4. `	3 • 3	4.3	1.0							15.2	8.5
S# Í		1.7	1.7	1.7								4.6	9.4
ખેડ⊌ İ 		• *	• 3	. 7	. 7							2•7	13.3
•	• •	٠,	• 3	1.3	1.7	. 3						4.6	14.0
waw (. 7		1.7		• 3						2.6	12.9
tens i		1.7	2.0	. 1	• 3	. 7						4.6	11.9
NNW			1 • ?	• 3	. 7	• ?						4.6	10.1
VARIABLE	• • • • • • •	• • • • • • • •	• • • • • • •		• • • • • •	•••••	•••••	• • • • • • •	• • • • • • • •	• • • • • • • •	• • • • • • • •	•••••	•••••
CALP	,,,,,,,	///////	,,,,,,,	11111111	,,,,,,	,,,,,,,	,,,,,,,	///////	,,,,,,,	,,,,,,,	,,,,,,,	3.3	111111
TOTALS	7.3	32 + 8	24.8	23.2	7.0	1.7						100.0	8.9

GLUBAL CLIMATOLOGY BRANCH USAFETAC AIR "FATHER SERVICE/MAC

PEPCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED FROM POURLY OBSERVATIONS

STATION NUMBER	221133	3011A12	NAME:						MONTH:		HOURS (LST		1400
DIPECTION (DEGREES)		4-6	7-13	1 1- 16	#1N 17-21	22 7	TN KNOTS 2°-33	34-40	41-47	48-55	GE 56	TOTAL %	ME A N WIND
f ₄	. 3	• • • • • • • •	1.4	. 7	.7	•••••		•••••	••••••			3.8	9.8
NNE	. 3	2.7	2.0			. 3						5.5	7.6
NE	!	٠,٠	. 7	. 3								1.4	9.5
ENE	. 7	2.7		- 3								3.1	5.8
Ĺ		. 3	. 3	. 7								1.7	8.8
FSE	!												
SE	· ·	• ?	. 7	. 3								1.7	6 • 8
SSE	!		1 • 4	2.7	• 3							5.5	11.4
S	1.0	4.5	11.9	10.2	1.7							33.4	9.9
55#	1.4	4.4	3 . 8	4 • 1	. 7	. 3						14.7	9.0
> =		. 7	. 7	. 7	. 7							3.1	10.9
454		• 3	• 3	1.4	. 7	.3						3.4	13.5
•	! !		1.4	7•1	1.4							6.8	12.9
кын			1.7	. 3								2.7	8.0
N W	!	1.	1.4	1. C	1.9							4.8	11.9
NUA	. 7	2 • 7	. 7	2.7	. 3							7.2	9 • 1
. V*RTABLE	`		•••••	•••••		•••••	• • • • • • • • •	• • • • • • •					
CNLM	1111111111	////////	,,,,,,,,	11111111	,,,,,,,	,,,,,,,,	,,,,,,,,	,,,,,,	11111111	////////	,,,,,,,,	1.4	/////
TOTALS	f 6.5 	26.7	23.3	2 % • 7	7.8	1.7						100.0	9.7

SLUBAL CLIMATOLOGY BRANCH USAFETAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED FROM POURLY OBSERVATIONS

100.0

9.7

AIR WEATHER SERVICE/MAC

STATION NUMBER: 221130 STATION NAME: MURMANSK USSR PERIOD OF RECORU: MONTH: OCT HOURS(LST): 1500-1700 WIND SPEED IN KNOTS
UIRECTION | 1-3 4-6 7-10 11-16 17-21 22-27 28-33 34-40 41-47 49-55 GE 56 TOTAL MEAN WIND (DEGREES) 1_N 9.0 1.7 1.9 . 3 2. 1 5.2 . 7 3.9 9.4 1.3 ANE 1.3 . 3 • 3 2.3 e.0 1.3 . 7 ΝE • 3 ENE • 3 • 3 3.3 6.2 2.5 8.5 £ 1.0 . 3 ESE 1.9 2.6 5.8 SE 1.0 6.2 11.5 555 4.0 1.6 2.5 10.3 1.0 7.2 9.5 10.1 3.3 31.0 S 2.0 1.9 • 3 13.4 10.3 55# 1.0 5.6 . 7 • 3 3.3 1.3 • 3 11.2 SW . 3 . 7 1.0 454 • 3 1 . 5 2.6 12.8 9.8 1.3 . 7 5.6 WNW 2.3 ?•3 1.0 6.9 11.9 • 3 9.0 . 7 • 3 1.6 1.3 e.7 NNS 2.3 4 . C 1.3 . 7 . 7 CVF4. 2.0 //////

GLOBAL CLIMATOLOGY BRANCH USAFETAC

PEPCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED FROM MOURLY OBSERVATIONS

AIR WEATHER SERVICE/MAC

77-86 PEPIOD OF RECOPD: STATION NUMBER: 221133 STATION NAME: MURMANSK USSR MCHTH: OCT HOURS (LST): 1800-2000 UIPLOTION | 1-3 4-6 7+10 11-16 17-21 22-27 2P-33 34-40 41-47 49-55 GE 56 TOTAL MEAN EDEGDEEST ! WIND Ŋ 1.0 11.3 UNE 1.4 1.4 • 3 3.7 7.5 ٠ŧ٤ • 3 2.0 6.0 ENE 1.7 . 7 . 3 6.7 3.1 ..~ . 7 4.8 Ł 3.4 . : FSE . , . 7 3.0 ٦F. 1.0 1.0 2.4 6.0 nst 1.4 1.7 9.4 1. 4 4 . 4 7.0 6.8 9.2 ۵ 2.4 8.5 2.7 30.3 55. 10.5 SK 1.4 . 3 . 3 7.5 . 3 . 7 . 7 • 3 3.1 12.3 1.5 1.4 2.4 . 7 . 5.4 11.1 1 . 4 1.4 2.4 5.4 12.6 1. 1.0 1.7 8 . C 5.4 LNW 2.4 1.4 . 3 7.5 8.5 VAHIABLE CALM 111111 TOTALS 9.2 130.0

GUEDAL CLIMATOLOGY BRANCE FERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED ESAFLIAC FROM HOUNLY OBSERVATIONS.

ATION NUMBER	: 221130								MONTH:	001		n: 2100-	
٠٠٠٠٠٠٠٠٠	• • • • • • • • • • • • • • • • • • • •	• • • • • • •		• • • • • • • • • • • • • • • • • • • •	w I f	O SPEED	IN KNOT	\$					
DIFECTION THEOREES)	1 - !	4 - t		11-16		-	28-33	34-40	41-47	42-55	GE 56	TCTAL \$	ME AN WIND
, j		3.5	. 3	. 3	.7		• • • • • • •		•••••	• • • • • • • •	• • • • • • •	4.6	7.3
1 + N; E		2.5	1.0		.7							3.6	R.5
VE		2.5	. 3	• 3								2.6	5 • 5
FINE [1.1	1 + 7	1.0	1.0								4.3	7.5
.]	, t	. 7	1.0									1.7	6.4
121				. 3								. 3	14.0
SF [. *	• 3	• 2								1.7	16.0
1.51	• ?	1.~	1 - 7	1.3	. 7							5.0	10.5
s	1 - 5	6.6	11,9	t• 6	1.0							31.4	9.7
554	. 5	5.3	4.C	4.3	1.0							14.9	7.7
5# 1		1.7	• 3	1.3	. 3							3.6	9.5
S⊌ I	• 3	1.5	. 7	1.3	. 7							4.7	11.3
		1.	• 3	1.7	1.0							4.3	11.8
is tame	. 7	· · ·	2.3	1.7	1 • 3							6.9	10.5
V#		1.0	1.3	1.6	1.3			. 3	3			5.ე	13.5
titew 1	. 7	-•"	1.3	. 7								5 • 6	€.1
VARIABLE	• • • • • • • • •				• • • • • •	• • • • • • • •	• • • • • •			·	• • • • • • •		•••••
CAL"	,,,,,,,,,	1111111	(11/1/1/	,,,,,,,,,	//////	,,,,,,,,	///////	,,,,,,,	,,,,,,,,	,,,,,,,,	,,,,,,,	1.3	,,,,,,
TOTALS	5.6	11.7	27.7	24.1	5.6			. 3	:			160.0	9.4

GL92AL CLIMATOLOGY BRANCH USAFETAC AIR WLATHER SERVICEZMAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED FROM MOURLY OBSERVATIONS

IDECTION	1-7	4-t	7-10	1 i~ 16	#It 17-21	O SPEED	IN KNOTS 29-33	34-40	4!-47	48-55	GE 56	TCTAL	ME AN WIND
											• • • • • • • •		
N [. 4	3 • 1	• 8	• 7	. 7							4.7	8 • 6
NNE I	. 4	2 • 1	1.2	• 3	• 2	. 1						4.2	7.5
NE j	• 2	1.2	• 5	. 4								2.3	6.7
E.NE }	. 7	1.4	• 5	. 4								2.9	6.4
ا ا	• 3	. 7	.5	. 1	.0							1.7	6.1
r S E . L	• .	. 4	•2	• C								. 7	5.6
SE I	• 1	• 5	• 6	. 1								1.4	7.0
1 12.5 1 12.5		1.7	1.7	1.7	. 4							4.9	16.1
1	• 2					•							-
3 I	1.6	9.0	1 C • a	9. 1	1.6	• 2						33.0	9.3
55¥	1. "	4 • 6	4.6	3.9	. 9	• 1						15.2	9.1
5 m 1	• 7	: • 4	1.0	1.7	• 3	. 1						4.0	9.2
wsw 1	• 1	. 7	• •	• 5	•6	•2						3 . 2	11.6
-	• .5	. 9	. 7	1.5	1.1	• 2						4.9	12.5
AND T	•	. 4	1.2	2.3	. 7	. 1						4.9	12.3
tew \$	• .	1	1.3	1	.6	.1	. 1	. 0				4.6	10.9
1.NA 1	. 4	2.5	1.7	1 - 3	. 3	.3						5.4	8.7
1	• `			,	• •	• ,						3.4	
VERTABLE !			•••••	• • • • • • •					* • • • • • • •	• • • • • • •	•••••	• • • • • • • •	•••••
CAEH !	11111111	////////	11111111	11111111	,,,,,,,	//////	,,,,,,,,	,,,,,,	,,,,,,,	,,,,,,,,	11111111	2.1	,,,,,,
TOTALS 1	6.7	وي و د	27.0	25.0	7.5	1.0	• 1	٠.				100.0	9.2

GLOBAL CLIMATOLOGY BRANCH PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED USAFETAG FROM MOURLY OBSERVATIONS.

STATION NUMBER: 201130 STATION NAME: MURMANSK USSR PERIOD OF PECORD: 77-86 MONTH: NOV HOURS(LST): 0000-0200

		• • • • • • •							MONTH:	NOV	*******	1): 6000-	0200 ••••••
I DIPECTION I UEGRES) I	1 - 3	4 - &	7-10	11-16	17-21	•	28-33	34-40	41-47	46+55	GE 56	TCTAL	ME A N WINU
N į	•••••	• 3	1.0	. 3	. 7	.3		• • • • • •				2.4	12.3
105	1.4	1.4	2.4	. 3	. 3							5.9	7.0
NE I		. 7										. 7	٠.٥
rne !	• 3	1 - 7										2.1	4.3
Ĺ !		1.~										1.0	4.7
ESE !	• 3	. 7	. 3									1 • 4	5.5
S.F.		• 7	• 3	. 3								1.7	7.6
SSE !		. •	• 3	2 · B	• 3							3 • 8	13.5
5	2.4	H . 5	17.6	10.0	3 • 5	1.0						42.9	9.7
S S ¥ .	• ?	5 • 2	7 • 3	4.6	. 7	• 3						18.7	9.7
sw	• 3		2.1	. 7								3.1	10.0
rs4		. 3	• 3	1.6	.7	٠,						2.9	14.6
	. ,	1.4		2.4	• 7				•			4.8	10.3
HAW I				1.4	• 3	. *						2 • 1	16.0
tew			• 3	. 7	. 3							1.4	13.3
titis 1	• 1	. 7	. 7	. 7	• 3							2.8	9.1
VARIABLE		• • • • • •				• • • • • • • •			• • • • • • •				•••••
1	////////	///////		11111111		,,,,,,,,,	,,,,,,,,,	,,,,,,,	,,,,,,,,	11111111	,,,,,,,,,	2.4	,,,,,,
TOTALS	5.7	22.0	32.9	25.6	7.6	2.4						100.0	9.6

GLOBAL CLIMATOLOGY HRANCH PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED USAFETAG FROM FOUNCY UBSERVATIONS

AIR MEATHER SERVICE/MAC

0

FERIOD OF RECORD: 17-86
MONTH: NOV HOURS(LST): 0300-0500 STATION NUMBER: 221130 STATION NAME: MURMANSH USSR renind of Record:

	. 	• • • • • •	•••••	• • • • • • • •	w I N	D SPEED	IN KNOTS	• • • • • • •	• • • • • • • •	• • • • • • • •	• • • • • • • •	••••••	• • • • • • • • • • • • • • • • • • • •
DIRECTION (4 -6	7-16		17-21	22-21	28-33	34-40	41-47	48-55	GE 56	TCTAL 3	ME AN WIND
И	7	1.7	1.4	1.0	. 3	•••••	• • • • • • • • •			••••••		4.5	P.5
NNE	1.7	1.7	1.0	1.0								4.8	6.7
ΝE		• 7	. 3									1.9	6.7
343		• ?	. 3									1.0	6.0
Ĺ	• :	. 3	. 3									1.0	5.3
ESE	!	. ?										. 3	6.D
SE	• 3	. 7		• 3								1.4	6.5
220	. 3	• 7	1.0	1.7	. 7							4.5	11.2
ذ	2.7	13 • 1	19.2	11.3	2.7	• 7						49.8	9.3
5 S w	• 3	5 • 5	3 • 1	3. 3	. 7							13.4	8.7
Sw I	i I	. 7	. 3	1.0	• 3							2.4	11.9
W.S.w	i I	٠ ۲	• 3	1.4	• 3							2.4	13.3
h	. 3	. 7		. 3	1 • 4							2.7	12.0
េះមួ	† . 7 1	1.0	1.0	1.4		• 3		٠				4.5	10.2
tv w	- 3	1.7	. 3	1.0								2.7	7.8
Parta Se	i i	• *	• 3	• 3	• 3							1.4	10.3
VARIABLE	· • • • • • • • • • • • • • • • • • • •	• • • • • •	•••••	• • • • • • •	• • • • • • •	•••••		•••••		• • • • • • •	• • • • • • • •	• • • • • • • • •	• • • • • • • • • • • • •
CELM	 ///////////////////////////////////	////////	11111111	11111111	,,,,,,,	1111111	,,,,,,,,	1111111	,,,,,,,,	,,,,,,,	,,,,,,,,	2.1	111111
TOTALS	l 7.9	24.2	29.7	24.7	6.9	1.0						100.0	9.1
	 • • • • • • • • • •	• • • • • •			• • • • • •								

GLOBAL CLIMATOLOGY BRANCH USAFLTAC AIR WLATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED FROM MOURLY OBSERVATIONS

STATION NUMBER	P: 221130								HONTH:	NOV	D: 77- FOURSILSI	r): G600-	08.00	
DIPECTION (DEGREES)		4-6	7-10	1 1- 16	17-21	D SPEED 22-27	1N KNOTS 28-33	34-40	41-47	42-55		TUTAL	ME A N WIND	•••
fo.	1.:	2.4	1.4	. 7	• 3	•••••	• • • • • • • •	• • • • • •	•••••	• • • • • • •		5.9	7.4	•••
NNE	 	1 • 7	• 3.	1 • E								3.1	7.8	
NE	. 7	. 7										1.4	4 . C	
FNE	. 7	• ?										1.7	3 . 3	
Ĺ	1 1 1	1.0	• 3									1.4	6.0	
ESE	! 	. 3	• 7									1.0	8.7	
SŁ	, [
r 5 t	 		1.4	• 7	1.5							2.8	12.6	
\$	2.9	12 3	15.2	14.1	1.7							46.6	9.2	
SSW	1.5	4 . 1	6.6	5. ∋	1.7							19.3	9.6	
Sh	i 1	1.0		. 7	• 3							2 • 1	9.5	
454	; !	• ?	. 3	. 7	. 7							2.1	13.7	
•			. 7	1.4	• 3							7.4	13.6	
4 N N	 	1.3	. 7	1.7	• 3	.3						4.1	12.3	
NW	i i	. 3	. 7	1.0	. 3							2 • u	12.4	
fù fu la	; ! !	. 7	• 7									1.4	6.0	
VARIABLE	• • • • • • • • • • • • • • • • • • •	• • • • • • •	• • • • • • • • •			• • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • •	• • • • • • • •	• • • • • • •	• • • • • • • •		• • • • • • • • •	• • •
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(111111	,,,,,,,	11111111	,,,,,,,	//////		//////	11111111	,,,,,,,,	///////	3.4	111111	
TOTALS	l 6.5	26.9	29+0	21.2	6.9	.3						100.0	9.1	

GLOBAL CLIMATOLOGY BRANCH USAFLTAC

STATION NUMBER: 22113C STATION NAME: MURMANSK USSR

.7

1.5

. 7

• 3

1.4

PERCENTACE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED FROM MOURLY OBSERVATION $^{\rm C}$

PERIOD OF RECORD:

1.4

11.5

9.9

9.5

AIR WEATHER SERVICE/MAC

#CNTF: NOV FOURS(LST): 0900-11CG WIND SPEED IN KNOTS 17-21 22-27 28-33 34-40 DIRECTION ! 4 -6 7 - 10 41-47 4E-55 GE 56 TETAL 11-16 MEAN IDEGREES! | WIND 2.4 . 7 3.4 6.0 NNE 2.5 . 3 1.4 4.4 7.1 Νŧ 1.0 1.0 4.7 FNE . 7 . 7 1.7 3.3 1.7 Ł . 7 2.0 5.0 ESE . 7 1.0 6.7 • 3 SF 1 . 4 • 3 1.7 5.6 : 50 . 3 1.0 2.4 4.4 11.8 5 2.4 :1.6 15.3 16.0 2.7 . 7 9.9 48.6 7. 4 5 S w . 7 3.1 . 7 . 3 9.1 12.9 5 W . 3 1.7 . 3 2.4 13.9 4 5 A • 3 . 7 . 7 . 3 1.0 3.1 11.4 w • ? . 7 2.7 1.4 5.1 13.7

TOTALS | 6.5 26.7 26.2 30.3 6.5 1.4 100.9 9.4

TOTAL NUMBER OF OBSERVATIONS: 294

of few

NA

NRW

VERTABLE

GLUBAL CLIMATOLOGY BRANCH USAFETAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED FROM MOURLY OBSERVATIONS

PERIOD OF RECORD:

AIR WEATHER SERVICE/MAC

STATION NUMBER: 221130 STATION NAME: MURMANSK USSR

#IND SPEED IN KNOTS

UTRECTION | 1-3 4-6 7-10 11-16 17-21 22-27 28-33 34-40 41-47 4F-55 GE 56 TOTAL MEAN IDEGREES) I WIND te 7.6 NNE . 7 2.1 10.2 • 3 ΝE . 7 . : ENE . 7 5.0 . 7 6.0 Ĺ . ; . 7 • 3 . 7 3.0 ESE . 3 . 3 . 7 8.0 SE . 7 • 3 1.7 555 1.0 1.4 • 3 . 3 3.5 8.3 49.8 10.5 . 7 3, 9 4 . 2 13.R 9.9 55# S . 7 • 3 1.0 WSW . 3 1.0 1.7 3.5 13.7 14.5 3.8 . 3 2.8 . 7 a Na 1.4 • 3 1.4 • 7 3.8 10.9 9.3 feli 1.0 1.0 2.8 NNW 7.0 VARIABLE CALM 3.1 ////// 9.0 1.7 100.0

GLOBAL CLIMATOLOGY BRANCH USAFLTAC AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DTRECTION VERSUS WIND SPEED FROM MOURLY OBSERVATIONS

ION NUMBER:	221130	STAT10N	NAME:						MONTH:	NO V		-86 T): 1500-	1700
TOLOGICAL (1-3	4 ~5	7-13		m I N	D SPEED	IN KNOTS 29-33			46-55	GE 56	1	ME AN WIND
и !	. 7	2.)	1.0	. 7	• • • • • • • •	• • • • • • •	••••••				•••••	4.4	6.A
NNE	• 3	1.7	• 3	1.4	. 3							3.4	9.9
. ne	. 7	. 7										1.4	4.0
ENE		1.7										1.0	4.0
i		. 7	. 3	• 3								1.4	R . C
ESF													
SE	• :	٠٠	. 7									1.4	6.0
SE !	• 3	1.5	. 3	1.4								3.0	9.8
s	2 . 1	13 • 2	.4.9	13.9	2.4	1.0						47.3	9.8
SSW	1 • 4	2.0	€ • 1	5 • 1	1.3							15.5	10.0
SW	. 7	1.4	1.5	1.4	• 3							4.7	8.2
45%		. 3	. 7	. 7	.7		• 3					2.7	15.4
		• 7	1.0	2.4	• 7							4.7	12.6
*N#		٠,	. 7	. 7	• 7							2.4	12.3
N.4	• ?	. !	. 7	. 3								1.7	7.2
พพส	. ,	5.0		• 7								3.0	6.7
VARIABLE	••••••	• • • • • • •	•••••	• • • • • • • •		• • • • • • •	•••••	• • • • • •			•••••	• • • • • • • •	••••••
CALM /	11/1////	////////	11111111	11111111	,,,,,,,	,,,,,,,	,,,,,,,,	,,,,,,	////////	,,,,,,,	,,,,,,,,	2.0	//////
10145	7.1	21.3	27.7	25.7	6 • 1	1.0	• 3					100.0	9.4

GEODAL CLIMATOLOGY GRANCH USAFLTAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED FROM MOUNLY OBSERVATIONS

AIR WEATHER SERVICE/MAC

STATION NUMBER: 221133 STATION NAME: MURMANSK USSR

77-86 PEPIOD OF FECORD: MONTH: NOV HOURSILSTI: 1800-2000 WIND SPEED IN KNOTS

DIPECTION | 1-3 4-5 7-10 11-16 17-21 22-27 28-33 34-40 41-47 4F-55 GE 56 TOTAL MEAN IDEGREES) 1 WIND N 1.4 3.7 10.3 2.7 NNE • ! • 3 . 7 • 3 3.7 8.3 ΝE . 3 3.0 3.6 FNE . 7 . 7 . 3 1.7 4.8 Ĺ . 3 . 3 6.0 ŁSF • 3 . 3 . 7 9.0 S.E. . , • 3 . 7 4.0 . 1 SSE 2.7 2.0 1.0 6.1 12.1 1.0 10.0 Ş 16.9 10.8 2.4 • 3 42.2 9.5 554 1 • 4 4.7 4.7 • 7 . 3 9.4 Sh . : . 3 4.4 11.3 • 3 . 3 1.0 . 7 M S W 2.4 13.4 . • 3 1.0 . 7 . 3 4.7 • 3 12.6 . . • 3 . 7 NAM 12.5 1.4 1.2 1.3 . 7 Νĸ . 7 3.4 10.6 NINE 1.3 1.0 1.0 3.0 8.7 VARIABLE CALM 1.4 ///// TOTALS 100.0 31.4 27.0 7.4 9.5

CLOBAL CLIMATOLOGY BRANCH USAFETAC AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED FROM MOUNLY OBSERVATIONS

STATION NUMBER: 221130 STATION NAME: MURMANSK USSR

PERIOD OF PECORD: 77-86 MONTH: NOV HOURS (LST): 2100-2300 UIPLCTION | 1-2 4-4 7-10 11-16 17-21 22-27 29-33 34-40 41-47 48-55 GE 56 TOTAL MEAN (DEUREES) | WIND 14 9.2 . 3 1.0 . 3 1.4 3.0 1.7 1.14 . 7 . 7 1.4 • 3 4.1 9.3 NE 1.0 . 3 • 3 1.7 4.8 FNE 1.0 • 3 1.4 4.0 . 7 Ł • 3 . 3 1.0 4.7 ! SE • 3 . 3 12.0 ٥Ł . 7 . 7 6.3 : S E 1.0 1.7 . 7 • ? 5 . 1 10.5 2.0 5 2.4 11.8 15.5 13.5 . 3 . 3 9.7 45.9 ۹ S ۾ 5.7 1.0 1.0 5.7 3.4 . 3 17.2 9.4 . 7 5 % • 3 . 7 • 3 • 3 2.4 11.1 1.7 . 3 1.7 • 3 1:5 # . 1 4.1 10.1 • . 7 . 7 1.7 2.0 5.1 13.7 ٠, ٦ I. N. be . 7 1.0 11.3 NW • 3 • 3 . 3 3.7 10.4 NAME . 3 • 3 11.4 V/FIABLE | CALI 10 TALS 160.0

GLUCAL CLIMATOLOGY PRANCH PERCENTAGE FREQUENCY OF OCCUPRENCE OF SURFACE WIND DIRECTION VFRSUS WIND SPEED USAFLING FROM HOURLY OPSERVATIONS

STATION NUMPER	R: 221130	2 TAT 1 ON	I IAME:	MURMANSK					PERIOD MONTH:	OF RECOR	D: 77- HOURS(LS)		L
DICECTION COLORES	1	4-4,	7-10		17-21	22-27	IN KNOTS 28-33	34-4C		48-55	GE 56	TCTAL	MEAN Wind
(4	. 4	1.4	1.2	. 6	.2	.5	• • • • • • • • •	• • • • • •		• • • • • • • •	*******	3.9	8 • 2
NNE	. 7	1.4	. 7	1. 0	• 2	• 3						3.9	P.0
Nf.	. 4	. a	. 1									1.4	4.3
FNL	! !	* H	. 1									1.2	4.3
£.		. 7	. 3	. 1								1.2	5.7
ESE		. 3	. 2	• 1								. 7	6.9
58		. 6	. 3	. 1								1.2	6.5
. SE		. 6	1.2	1.6	• 6							4 • 1	11.3
S	2.1	11.5	16.1	17.2	2 • 8	•6	• 0					46.6	9.7
5 S &	. 9	4.5	4.8	4.7	1.0	• 2						16.0	9.5
SW		. 7	.6	1.2	. 3	. 9						3.0	10.4
k S w		.5	•5	1.1	.6	. i	• 3					2.9	13.0
h	. 1	• 5	.6	2. J	1.0	• າ						4.2	12.9
N N W	.1	• 6	٠,	1.0	• 3	•1						2.6	11.9
lu m	.2	. 5	. 8	. 7	• 3		• 0					2.6	10.0
NN _K	.1	٠,	. 6	. 6	• 2							2.3	8.5
VARIABLE	' * * * * * * * * * * * * * * * * * * *			• • • • • • • • •	• • • • • • •	•••••		• • • • • •		• • • • • • •			
	<i> </i>							,,,,,,,		,,,,,,,,	1111111		
101465	6.4	26 - 6	26.3	27.8	7.3	1.2	• 1					100.0	9.4

GLOBAL CLIMATOLOGY PRANCE USAFETAC AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED FROM HOURLY OBSERVATIONS

STATION NUMBER: 221130 STATION NAME: MURMANSK USSR

PERIOD OF RECORD: 77-86 MCNTH: DEC HOURS(LST): 0030-0200 | wind speed in knots 11-16 17-21 22-27 29-33 34-40 41-47 48-55 GE 56 DIFECTION 7-40 TOTAL MEAN (DEPuses) | 1 WIND . 3 • 3 . 3 1.7 11.4 NNE . 7 1.0 1.7 . 7 4.0 11.8 . 3 . 7 9.0 • 3 1 - ? . 3 1.7 E 14E 4.8 L . 7 . : 1.0 5.3 I SE . 3 SŁ . 3 12.0 . 7 1.0 3.7 . 7 1.3 8 . 2 SSE 11.3 2.3 20.6 12.3 3.0 49.5 9.3 154 4 . 7 7.3 4.3 1.7 • 3 18.6 10.1 1.0 2.3 1.0 4.7 13.1 454 . 3 • 3 . 7 • 3 2.0 15.5 . 7 . 7 . 7 . 3 2.7 10.8 1.0 1.3 1.7 4 N W 4.0 14.8 . 3 NH . 3 • 3 • 3 1.3 16.5 . 7 FINE • 7 . 7 . 7 2.7 12.3 VARIABLE CALM 1.7 ////// TOTALS 10.3 1.3 100.0 10.0

GLORAL CLIMATOLOGY BRANCH-USAFETAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED FROM HOURLY DRSFRVATIONS

PERIOD OF PECORO:

AIR WEATHER SERVICE/MAC

STATION NUMBER: 221130 STATION NAME: MURMANSK USSR

#ECTION OF PECOND: 77-86

#ONE SPEED IN KNOTS

UITECTION | 1-3 4-6 7-10 11-16 17-21 22-27 28-33 34-40 41-47 4F-55 GE 56 TOTAL MEAN

FOR WEEST | . 7 . 7 . 3 ٠,٠ 3.6 9.8 1.5 1.3 . 3 • 3 4.6 11.9 . 7 1.€ Pater 1.3 6.7 141 . 7 • 3 5.0 . 1 * * * . 7 Ł. • 3 . 7 7.0 1 5 8 . 7 2.0 . 7 St • 3 . 3 . 7 12.5 • 7 2.9 7.3 < S.f. . 1 1.6 9.8 48.7 3 1.3 16.5 18.6 16.0 2.3 1.0 2.0 7.8 . 7 10.4 5 S W 4. 3 2.0 18.6 13.5 . 7 1.7 4.6 SW 1.0 1.€ . 3 . 1 . 7 . 3 11.4 454 . 7 1.6 1.0 . 3 1.0 2.6 12.4 . -STOR 1.0 1.6 12.0 • 3 1.3 2.0 3.6 16.2 ۸. HNU . 7 . 7 CALM 1.6 ///// 100.0 10.0

TOTAL NUMBER OF OPSERVATIONS:

ULUGAL CLIMATOLOGY BRANCH PERCENTAGE FREQUENCY OF OCCUPRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED USAFLING FRUM HOURLY OBSERVATIONS AIR REATHER SERVICE/MAC

	• • • • • • • • • • • • • • • • • • • •	• • • • • • • •	•••••		⊌I N	D SPEED	IN KNOTS	S			• • • • • • • •		• • • • • • •
DIRECTION (IDEGREES) (1 - 3	4 -6,		11-16			28-33	34-40	41-47	48-55	GE 56	TOTAL	ME A N WINU
N			1.0	2.0	. 7	•••••				••••••		4.7	12.1
MAE	• 3	• 1		1.4		. 3						2.4	13.0
NE	. 7		. 3									1.0	4.0
* Net	• 3	4										1.7	4.9
			.3	• *								. 7	10.0
r SE		. 7		. 3								1.0	8.0
58				. 7								. 7	13.0
551	• *	1."	. 3									1.7	5.2
5	3.1	10.5	15.6	15.3	2.4							47.5	9.4
156	1 + 4	4 + 1	6.1	4.2	1.4							22.0	10.4
Sa			1.0	1.5	. 7							7.7	13.5
aba				1.7	.?							1.4	16.3
.	. 1		. 3	1.4	1.0	. 3						3.7	13.3
10 to \$1.			. 7	2• n	1.7							4.1	13.3
N.2					. 7							1.0	12.7
745a 1		. 7	• 3	• 2	. 3							1.7	10.6
VARIABLE 1			•••••		• • • • • • •	• • • • • • •		• • • • • • •	• • • • • • • •	• • • • • • •	•••••	• • • • • • • • •	•••••
CALM	,,,,,,,,,	////////	1//////	,,,,,,,,,	//////	1111111	,,,,,,,	,,,,,,,	(1111111	,,,,,,,	1111111	2.0	/////
TOTALS 1	μ • 1	10	26.1	35.6	9.5	. 7						100.0	10.0

LEUBAL CLIMATRICOGY RHANCH PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND STREETION VERSUS WIND SPEED USAFLIAC FROM HOURLY OBSERVATIONS

STATION NUMBER: 221130 STATION NAME: MURMANSK USSR

PERIOD OF PECO D: 17-86
MONTH: DEC FOURS(EST): 0900-1100

DEGREES)	: - 3	4 -6	7-10	11-16	17-21	22-27		34-40	41-47	46-55	GE 56	TCTAL &	ME AN Wind
													<i>.</i>
N I		1.0	• ?	1. ?	1.0	• 7						4.6	13.8
une	• 3	. 7	. 7	1.0	• 3							3.0	10.3
N.F.		• 7										. 7	6.0
ENE		• 3	• 3									. 7	7.0
į į		. 7	• 3									1.0	6.0
ESF		• ?										• 3	4.0
SF	• 3	. *										. 7	3.0
5.5E	٠ ٢	1.7	1.0	• 3	• 3							3.0	P.6
5	1 . 3	12.5	17.5	16.3	2 • 6							52.5	9.7
ssa i	. ?	9 . 6	4.6	5.9	2 • 3	. 7						18.9	10.6
5 ×		:	• 3	1.7	. 7							4.5	11.2
% S #		1.0		• ?						-		1.3	7.0
-			• 3	2. €	1.7	.7						4.5	17.4
v tov		. 7	• 3	1.3	. 7							3 • 0	12.7
99		٠ ٢		. 3		• 3						1.9	14.3
\\\\\		. 7		. 7	• 3							1.3	11.3
VARIABLE	• • • • • • • • •	• • • • • • •	•••••	• • • • • • • • •		• • • • • • • •		• • • • • • •			• • • • • • • •		•••••
CALM	,,,,,,,,,,	111111	1111111	,,,,,,,,	1111111	1111111	,,,,,,,,	//////	,,,,,,,	///////		1.3	//////
TOTALS I	3	25.7	26.1	31.7	9.9	2 . 3						100.0	10+3

GEORAE CLIMATOLOGY BRANCH USAFLTAC AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED FROM HOURLY OBSERVATIONS

STATION NUMBER: 221130 STATION NAME: MURMANSK USSR PERIOD OF RECORD: 77-86 MONTH: DEC HOURS(LST): 1200-1400 #IND SPEED IN KNOTS

DIRECTION | 1-3 4-6 7-10 11-16 17-21 22-27 28-33 34-40 41-47 48-55 GE 56 TCTAL MEAN (OFGREES) | WIND 1.3 .7 1.3 .? 1.5 4.5 12.6 1.0 NML . ? 1.7 9.6 3.3 iet • 3 . 7 6.0 5 148 9.0 l. 1.0 4.0 155 . 3 . 3 14.0 51 . 7 2.0 5.53 . 7 1.3 . 3 8.9 3.3 5 · . . . 11.7 16.5 15.6 3.3 48.9 10.1 . 7 55W 9.9 6.9 6.3 1.7 1.7 22.4 10.2 . 7 . • 1. W 1.7 1.5 9.1 . 7 8.7 . 7 1.3 17.0 A 14 A 1. 7 1.0 2.6 15.1 14.4 1.0 . 3 1.3 15.3 1.11.2 25.0 CALM 1.3 ///// 31.1 33.7 30.0 3.9 2.5 100.0 10.4

TOTAL HUMBER OF OBSERVATIONS: 733

GLOBAL CLIMATCLOGY RRANCH USAFETAC ATR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED FROM HOURLY OBSERVATIONS

PERIOD OF RECORD:

77-86

100.0

10.3

STATION NUMBER: 221137 STATION NAME: MURMANSK USSR

17-21 22-27 28-33 34-40 DIRECTION | GE 56 TOTAL (DECDEES) 1 2 MIND 3 1.0 . 7 . 3 • 3 3.3 15.4 TINE 1.0 1.0 1.0 3.6 12.1 is S • 3 8.0 1.0 2.7 . 7 . ? í. . 7 . 3 6.0 15€ . , . 3 4 . C 1.0 SE 1.3 5.0 • 3 450 3.9 1.6 1.6 10.0 9.9 S 19.0 15.7 2.9 48.7 55, 3.9 19.3 10.2 1.0 1.0 3.6 10.5 2.0 14.3 • 3 • 7 1.3 . 7 3.6 10.5 . 7 1.0 2.3 4.2 . 3 11.8 Nik . 7 . 3 1.0 15.7 1.74 1.0 17.6 CALM 1.6 ///// . 3 21.9

TOTAL NUMBER OF OBSERVATIONS:

33.1

32.4

8.9

1.3

TOTALS

GLOBAL CLIMATOLOGY BRANCH USAFETAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERGUS WIND SPEED FROM HOURLY OBSERVATIONS

PERIOD OF PECORD:

77-86

AIR WEATHER SERVICE/MAC

STATION NUMBER: 221133 STATION NAME: MURMANSK USSR

PLATED OF PECUNU: 77-86

MONTH: DEC HOURS(LST): 1800-2000

| WIND SPEED IN KNOTS

017ECTION | 1-3 4-6 7-10 11-16 17-21 22-27 28-33 34-40 41-47 49-55 GE 56 TCTAL MEAN
(0EGPEES) | IDEGPEEST ! .0 .3 .3 14.1 • 7 1.0 MNE 1.7 . 3 . 7 3.0 9.6 NE 1.3 • 3 . 7 6.0 • 3 E E . 3 . 3 9.0 1. £. 1.0 4.0 LSΕ SE . 7 . 7 8.3 SSE . 7 1.0 . 3 3.0 7.2 5 20.8 2.3 46.5 10.2 1.7 55% ٠ ، 5.0 8.3 1.3 21.8 9.8 SW 4.0 12.4 . 3 . 7 1.3 • 3 W.S.W . 7 • 3 1.3 . 3 2.6 13.4 . 7 . 3 . 7 . 3 2.3 14.4 WAW 1.0 . 7 . 7 2.6 11.5 fa Se • 3 . 7 1.0 2.6 12.6 tition 1.0 1.0 • 3 VARIABLE | CILP 1.7 ////// TOTALS 19.0 36.C 20.1 9.6 1.3 . 7 100.0 10.3

GLOBAL CLIMATOLOGY ERANCHUSAFLIAC AIR WEATHFK SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED FROM HOURLY OBSERVATIONS

PERIOD OF FECORD: 77-86
MONTH: DEC HOURS(LSTI: 2100-2300 STATION NUMBER: 22113C STATION NAME: MUHMANSK USSP

1							IN KNOTS						
DECTION 1	1-3	4 -6	7-16	1 4- 16	17-21	22-27	28-33	34-4C	41-47	48-55	GE 56	TCTAL	MEAN
N 1	• • • • • • • • •	. 7	. 7	1.0	1.0		, 3					3.6	14.2
NNE		1.0	2.0	. 3	• 3							3.6	9.7
HΕ		1.5	. 3									1.3	5.5
ENE		• 7										. 7	4.0
E !	. *	1.0										1.3	4.0
FSE	. 3	• 7										. 7	3.0
SE		• ?	. 3		• 3							1.0	11.0
SSE		. 7	1 • 3	• 3	• 3							2.6	9.6
s	1.0	13.9	16.5	14.2	2 • 3							44.9	9.6
5.5 h	1.0	3 • €	9.6	5.3	2 • 3	• 3						22.1	10.6
S #		1.7	. 3	1.3	1.7							4.3	13.2
พรพ			• 7									. 7	8.0
.			1.7	1.3	. 7							3.3	13.2
k.Nw			. 7	. 3	1.0							2.0	13.8
11%		1.	. 3	1.7	• 3							3.6	10.5
NA I	• *		• 3	. 7	• 3							1.7	10.2
VARIABLE		• • • • • •		• • • • • • • • • • • • • • • • • • • •		• • • • • • • • • • • • • • • • • • • •			• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • • • •	
CALP 1	,,,,,,,,,,	111111	,,,,,,,,	11111111	,,,,,,,	//////	,,,,,,,,	//////	,,,,,,,	,,,,,,,	,,,,,,,	2.6	,,,,,
TOTALS !	3	22.4	34.3	26.4	10.6	• 3	. 3					160.0	9.9

GLOBAL CLIMATCLOGY BEAUCH USAFETAC AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED FROM HOURLY OBSERVATIONS

77-86 STATION NUMBER: 221130 STATION NAME: MURHANSK USSR PERIOD OF RECORD: #04TH: DEC HOURS(LST): ALL

#IND SPEED IN KNOTS

DIPECTION | 1-3 4-6 7-15 11-16 17-21 22-27 28-33 34-46 41-47 48-55 GE 56 TOTAL MEAN IDEGREES) | WIND 14 13.0 NNE 1.0 1.5 . 4 • l 3.4 11.0 NE • 0 . 1 . 9 6.2 ENE . 1 . 5 . 1 • 0 . 9 5.2 Ł • 3 • 2 . 1 . 9 5.5 rsg • 1 . 2 . 1 5.6 ςr • . . 1 • 2 • 1 . 1 7.9 . 4 < S { . 7 1.2 , 5 • 2 3.0 8.4 S 1.5 10.7 18.1 15.2 48.2 9.8 SSH . 9 20.5 10.3 5.4 . 4 1.3 3.9 11.7 . 3 • 5 • 2 · 7 . 1 1.6 12.6 1.0 • 2 . 7 1.0 . 2 3.3 13.9 HNW . 7 • 1 1. 3 . 8 3.0 13.1 Nik . 3 . 2 . 7 . 6 . 1 1.9 13.8 NAME • 6 . 1 11.9 VARIABLE CALM 20.0 1.4 100.0 10.2

GLUEAL CLIMATOLOGY PRANCH USAFLTAC AIR WEATHEN SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND CIRECTION VERSUS WIND SPEED FROM HOURLY OBSERVATIONS

100.0

9.1

TICH NUMBER	2: 221130	STATION	NAME:	MURM AN SK	USSR				FERIOD MONTH:	CF RECOR	O: 77. Hoursils		L
UIRECTION DEGREES		4 -£	7-10	1 1- 16	WIN 17-21	D SPEED		34-40	41-47	42-55	GE 56	TOTAL	ME A N Uniu
۱	. 7	3.2	2.9	2.3	.5	.1	• 9	• • • • • •	•••••	• • • • • • •	•••••	9.8	8.9
NNE !	. 4	1.6	1.6	1.1	• 2	• 7	• 0					4.9	в.
NE	. 2	1.1	1.0	. 4	.0							2.7	7.6
ENE	• 3	1.5	. 7	• 3	.0							2.2	7.0
E !	• 2	• 8	.6	• 3	• C							1.0	7.1
t S E	• :	. 4	• 3	• 1	• 0							. 9	6.
S.F.	• 1	• 6	.4	• 1	• C							1.2	6.8
SSE !	. 7	1 • 1	1.1	. 8	. 2	• 3						3.5	9.0
5	1.4	e . :	7.0 * 6	8.9	1.7	•2	• 0					31.1	9.
5.5W	.9	4 • 6	5.4	4.3	1.0	•1	• 0					16.3	9.
S W	• 3	1 • 1	1.0	1.1	. 4	-1	• 0					4.0	9.6
2	• 2	• 5	. 6	. 7	.2	.1	• 0					2.3	10.
• !		• 6	. 9	1.3	. 7	•1	. 5	• 0				3.9	11.6
LNE !	• :	• •	, 9	1.4	. 4	-1						3.5	11.
Nh I	• ĉ	1.0	1.2	1.2	. 4	•1	• 0	• 0	,			4.1	10.2
^ N	. 4	1.9	1.6	1.4	. 4	•1	• 0					5.8	9.0
1 3JBAIAAN	· • • • • • • • • • • • • • • • • • • •	• • • • • • •	******				• • • • • • • • •	• • • • • •	•••••		•••••		••••
CV F	 ///////////////////////////////////	,,,,,,,,	,,,,,,,,	,,,,,,,,	,,,,,,,,,	,,,,,,,,	,,,,,,,,,	,,,,,,,		(1111111	,,,,,,,,,	1.8	11111

GLORAL CLIMATOLOGY BRANCH USAFETAC AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRFCTION VERSUS WIND SPEED FROM HOURLY OBSERVATIONS

	JSAFETAC AIR WEATFER SI	FRV1CE/MAC					FR04	HOURLY	DESERVAT	11644				
5	STATION NUMBER	P: 221130	STATIO	N NAME:	MURM AN SK	USSR				PERIOD MONTH:	OF RECOR	D: 77	-87 .T): AL	L
•		• • • • • • • • • • •	•••••		GS 20C TO			AISTairi						•••••
					S 200 FEE		RE WITH	VISIBILTI			MILES			
	Direction (DEGPEES)		4-6	7-10	11-16	₩I+ 17-21	10 SPEED 22-27	IN KNUTS 29-33	6		40-55	GE 56	TOTAL *	MEAN Winu
•	N	!	3 • 1	4.1		1.3	-1		• • • • • • •		•••••		14.2	10.5
	NNE	. 4	1.7	2 • 6	2 • 3	•5	- 1	• 0					7.7	9.8
	NE	.2	1 • 4	1.3	. 6	• 1							3.6	6.0
	ENE		1.3	• 6	٠ ٦								2.3	6.7
	Ĺ	.2	. 5	.5	• 3	• 1							1.6	7.3
	I. S.E.	.1	. 3	• 1	• 1	• 0							• 6	6.5
	SE	• 1	. 4	• 2	• 1	• 0							. 7	6.4
	187	.2	• 7	. 7	• 6	. 1	٥٠			•			2.3	8.9
	S	1.6	8.7	8.4	5.9	1.0	•2	• 3					25.3	8.8
	5 S w	1-1	4.5	4.5	3.1	• 5	•1						13.6	8.4
	5.4		. ?	. 7	• 6	- 1	•1						2.7	8.5
	WSW	į .2	• c	. 4	• 2	• 1	•9	• 11					1.4	8.2
	•	į .:	• E.	• 5	• 9	• 5	- 1	• 9					2 • 8	11.6
	V N a	j .:	. 4	. 8	1.5	. 7	• 1						3.7	12.6
	NW	د ا	1 • 3	1.8	1.8	.7	• 1	٠,	• :	•			6.0	11.0
	Po Dales	j .a	2.6	2.5	2. 1	.8	•2	٠٦					9.2	9.9
•	VARIABLE.	· · · · · · · · · · · · · · · · · · ·	•••••	• • • • • • •	• • • • • • • • •	• • • • • •	•••••	•••••	• • • • • • •	• • • • • • • •	• • • • • • •		• • • • • • • • •	•••••
	CAL"	! <i>,,,,,,</i> ,	//////	///////	,,,,,,,,	,,,,,,,,	,,,,,,,	,,,,,,,,	,,,,,,,	,,,,,,,,	//////	,,,,,,,,	2.4	/////
	TUTALS	1 6.4 	28.1	29.6	25.7	6 • 4	1.1	• 2	• 5)			100.0	9.2
		• • • • • • • • • •								. .				

PPPPF	PEP	AAA	AAA	RABBE	RRR	11111111	րընել	כסנ	
PPPPP		1 1 1 1	AAAA	RRHPR	RRRR	11 11 11 11 1 1	COUDL	acei	
PF	PF	6.7	AA	Rр	RE	T T	ĐĐ	0.0	
PP	r F	LA	AA	RR	RR	ΤT	D.C.	כס	
PEPPE	PPPP	Λ Δ	4.4	20 656	RRRR	1 1	กม	DD	
PEPPE		2 4 4 4 4	AAAAA	88888	PRR .	ΤT	ŀυ	OD	
FF			AAAAA	RR	βp	T T	D G	00	
PF		A A	AA	RR	RR	T T	D.D.	00	
F P		4 A	A A	RR	RR	T T	ויזסיוטמ	סטסט	
PF		Λ Δ	AA	RR	RR	ΤT	וזטחטיו	סטפי	

,

CLILING VERSUS VISIBILITY AND SKY COVER SUMMARIES

CETEING VERSUS VISICILITY SUMMARY

THIS SUMMARY IS A BIRVAPIATE FREQUENCY DISTRIBUTION BY CLASSES OF CEILING FROM """ THROUGH EQUAL TO UR GREATER THAN 23,000 FEET AND AS A SEPARATE CLASS "NO CEILING", VERSUS VISIBILITY IN 16 CLASSES FROM ZERO THROUGH EQUAL TO OR GREATER THAN 10 MILES.

DATA DERIVED FROM HOURLY OBSERVATIONS.

FREGUENCY DISTRIBUTION FRESENTED BY THE STANDARD 3-FOUR TIME GROUPS BY MONTH, MONTHLY AND ANNUALLY CALL YEARS COMPINED).

NOTES:

BEGINNING IN 1964, METAR STATIONS PEPORTED VISIBILITIES TO 5 MILES AND GREATER THAN 6 MILES. THEPEFORE THE COLUMN FOR VISIBILITIES COURT TO OR OREATER THAN 19 MILES APPLAIN BLANK.

AS A RULE, AIPWAYS STATIONS NORMALLY REPORT VISIBILITIES TO 6 MILES AND 7 OR GREATER, HOWEVER SAME STATIONS REPORT HIGHER VALUES. THEREFORE, THE 10 MILE VISIBILITY COLUMN SOMETIMES CONTAIN SHALL PERCENTAGE VALUES. FOWEVER, THESE VALUES ARE OF LITTLE MEANING AND SHOULD BE DISREGAPUED.

FOR METAR CIVILIAN STATIONS REPORTING "CAVOK", ALL CRILINGS AROVE 5000 FEET WERE SUPPESSED TO SOCC FEET. THEREFORL, NO PERCENT VALUES APPEAR ABOVE 5000 FEET.

SKY COVER SUMMARY

PRESENTS PERCENTAGES OF SKY COVER IN EITHER 10THS OF COVERAGE OR "AIRWAYS CLASSIFICATIONS".

DATA SUMMAPIZED BY THE STANDARD 3-HOUR TIME GROUPS BY MONTH, MONTHLY AND ANNUALLY CALL YEARS COMPINED.

ALSO PRESENTED ARE MEAN SKY COVERS.

FUR AIRWAY STATIONS. THE CONVERSION FROM THE AIRWAYS DESIGNATIONS TO ICH'S FOR PRESENTATION ARE:

CLEAR	-	5/13
SCATTEREU	-	3/13
BROKEN	-	9/13
OVERCAST	-	13/13
OFSCUPED	-	10/17

LEUDAL CLI: ATOLOGY RRANCH USAFETAC AIR WEATHER SERVICE/MAC

PENCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VEKSUS VISIBILITY FROM FOURLY OBSERVATIONS

C TATION NUMBER - 201121	CTATION LAWE.	MITTHE AND AN AREA TO THE AREA	

							: мяям		-				PEPIDO MONTH	-		LLST1:	0000-02	00
		• • •		• • • • • •	• • • • • •	• • • • • •	• • • • • •			• • • • • • • • • • • • • • • • • • • •				• • • • • •	• • • • • •	• • • • • • •	• • • • • •	• • • • • •
11	ING	1	GT	GŁ	Gις	GE	GE	GE	GE A12181F	ITY IN I	FUNDREDS GE	S OF ME	SE	G£	GΕ	GE	G €	GE
	. 1		16.7	90	4C	50	48	40	32	74	20	16	1.2	l ü	8	5	٠. ن	٥
	• • • •			• • • • • •		••••••		•••••					• • • • • • •					•••••
(EIL	ŀ	17.6	22.1	23.5	25.0	30.4	31.1	33.6	35.3	35.6	36 • 3	36.3	37.4	37.7	36.1	38.1	38.1
	1000	21	20.1	24.6	26.0	28.3	32.9	33.6	36.0	37.7	38.1	38.8	30.5	39.8	40.1	43.5	40.5	40.5
7	1956	21	20.1	24.6	26.0	28.3	32.9	33.6	36.0	37.7	38.1	38 • 8	39.9	39.8	47.1	43.5	40.5	40.5
٠,	6.73	a i	22.1	24.6	26.3	28.0	32.7	33.6	36.0	37.7	38.1	38 • 8	30.0	39.8	40.1	43.5	40.5	40.5
	1400	C 1	20.1	24.6	26.3	28.5	37.9	73.6	36.0	37.7	38.1	38 • 8	39.9	39.8	43.1	40.5	40.5	40.5
1	13004	ü [27.1	24.6	26.0	26.0	32.9	33.6	36.0	37.7	38.1	18.8	39.8	39.8	43.1	40.5	40.5	40.5
1	וטרטו	5 J	29.0	33.6	35.6	38 • 4	43.3	44.6	47.4	53.9	51.2	51.9	52.2	53.3	53.6	54.D	54.0	54.0
			28.C	33.6	35.6	38 . 4	43.3	44.6	47.4	53.9	51.2	51.9	52.2	53.3	53.6	54.3	54.0	54.0
			29.0	33.€	35.0	38 • 4	43.3	44.6	47.4	50.9	51.2	51.9	52.2	53.3	53.6	54.0	54.0	54.0
			28.E	33.€	35.6	18.4	43.3	44.6	47.4	53.9	51.2	51.9	52.2	53.3	53.6	54.Ú	54.0	54.0
	€001	וני	29.4	73.9	36.0	30.8	43.6	45.0	47.8	51.2	51.6	52 • 2	52.6	53.6	54.3	£4.3	54.3	54.3
			28.4	33.9	36.0	38 • 8	43.6	45.0	47.8	51.2	51.6	52.2	52.6	53.6	54.0	e. 4 . 3	54.3	54.3
			28.4	34.3	36.3	39 • 1	43.9	45.3	48.1	51.6	51.9	52.6	52.9	54.6	54.3	54.7	54.7	54.7
			39. A	36.7	33.8	41.5	46.4	47.8	50.5	54.0	54.3	55.0	55.4	56.4	56.7	57.1	57.1	57.1
			30.9	26.7	38.3	41.5	46.4	47.8	50.5	54.3	54.7	55.4	50.7	56.7	57.1	57.4	57.4	57.4
	3 (1)	24	31.8	37.7	39.8	42.6	47.4	49.8	51.6	55.4	55.7	56 • 4	56.7	57.8	58.1	58.5	58.5	58.5
			39.1	48.8	51.2	54.3	50.5	61.6	64.4	69.2	10.2	71.3	71.6	72.7	73.7	74.0	74.0	74.0
	2000	Üĺ	39.P	49.5	51.9	55 • 3	67.2	62.3	65 • 1	69.9	12.9	72.0	72.3	73.4	74.4	74.7	74.7	74.7
	180	1.0	43.5	50.2	5. 6	55.7	67.3	63.L	65.7	70.6	71.6	72.7	73.9	74.5	75.1	75.4	75.4	75.4
			41.2	50.9	5 ? • 6	57.1	62.3	64.4	67.1	72.0	73.7	74.0	74.4	75.4	76.5	76.8	76 · B	76.8
	1 ~	: I	44.6	57.4	5 1.5	66.4	73.4	75.6	79.6	85.5	86.9	87.9	8 4 . 6	99.6	71.7	0.15	91.3	91.0
	100	1	40.3	56.1	51.6	67.1	74.3	76.5	90.3	96.2	87.5	*R . 6	89.3	90.3	91.3	91.7	91.7	91.7
			45.3	58.1	5 I .6	67.1	74 . ∂	76.5	87.3	86.2	47.5	88.6	85.7	90.3	91.3	91.7	91.7	91.7
-			46.0	58.8	62.3	67.8	74.7	77.2	81.0	86.9	88.2	99.3	3 1	91.3	92.0	92.4	92.4	92.4
Ε.			46.7	6 J.	64.0	66	76.5	78.9	82.7	88.6	40.0	91.0	91.7	72.7	93.8	94.1	94.1	94.1
	€ 0	31	46.7	€3•3	64.	69.6	75.5	78.9	82.7	83.6	90.0	91.0	91.7	92.7	93.9	94.1	94.1	94.1
			46.7	6.0.2	54.4	69.9	76.3	79.6	93.7	89.6	91.0	92.5	97.7	93.8	94.8	95.2	95.2	95.2
			46.7	5.1+2	64.4	69.9	76.3	79.6	83.7	89.6	91.3	35°C	93.1	94.1	95.2	95.5	95.5	95.5
			46.7	60.2	64.4	59.9	76.8	79.6	84.1	93.0	91.3	92.4	93.4	94.5	95.5	95.8	95.8	95.8
			46.7	63.2	54.4	69.9	76.0	79.6	84.1	93.6	91.3	92.4	93.4	94.5	96.2	76.9	96.9	96.9
•	1 3	- (45.7	60.0	54.4	69.9	76.8	79.6	84.1	90.0	91.3	92.7	9 7 • 3	94.8	96.5	97.2	97.9	98.6
		31	46.7	6J.2'	54.4	69.9	76.8	79.6	84.1	93.0	91.3	92.7	93.3	94.8	96.5	97.2	97.9	100.0

GLOBAL CLIMATCLOGY BRANCH AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURPENCE OF CFILING VERSUS VICIBILITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 221130 STATION NAME: MURMANSK USSR

PERIOD OF PECORD: 78-67 MONTH: JAL HOLRS(LST): 0300-0500 VISIBILITY IN HUNDREDS OF METERS GE CELLING GE GE GE 24 3 D GE 56 C t GE GE GE IN | GT FEET | 100 32 1.2 10 5 90 40 16 Ω NO CEIL | 17.4 23.1 32.7 33.3 33.3 33.7 34.0 34.7 34.7 24.1 25.5 27.6 30.3 31.6 27.0 29.6 72.3 33.7 35.4 36.1 36.7 76.7 65 200001 21.1 25.2 25.2 34.7 36.7 36.7 36 . 7 6E 187031 21.1 26.2 27.6 29.6 12.3 33.7 34.7 35.4 35.7 36.1 36 . 7 36,7 36.7 25.2 6E 160801 21.1 E 14021 21.1 25.2 27.6 27.0 34.7 26.2 32.3 33.7 35.4 35.4 35.7 36.1 36.7 76.7 36.7 36.7 76 - 1 36 . 7 35.4 35.4 26.3 12.3 33.7 36.7 36.7 36.7 SE 12000) 21.1 27.6 GE 179301 26.5 33.0 34.4 37.8 47.8 43.9 46.6 48.3 49.3 49.3 49.7 50.0 50.7 50.7 50.7 51.6 ະດີ. ວ 92001 16.5 80301 26.5 70331 26.5 49.3 υE 33.0 33.0 34.4 34.4 37.8 37.6 40.8 40.8 43.9 46.6 48.3 49.3 49.7 50.7 50.7 57.7 51.0 49.3 49.7 50.0 50.7 50.7 53.7 48.3 49.3 ьE 43,9 46.6 49.3 50.0 50.3 51.0 54.4 37.5 43.8 43.9 46 .6 48.3 49.3 49.7 53.7 52.7 50.7 57.7 57.3 54.1 49.7 49.7 50.3 51.0 51.0 51.0 ů E 5"071 26.9 33.3 34.7 41.2 44.2 46.9 48.6 51.4 38.1 45J01 26.9 45D01 28.2 35.0 41.5 50.7 51.4 55.1 51.4 33.7 47.3 49.Ü 50.0 50.0 51.4 51.7 44.6 55.4 55.1 53.7 υE 35.7 41.3 46.3 51.0 52.7 53.7 55.1 55.9 55.8 55.8 55.4 55.4 35531 29.6 43.5 46.9 50.0 52.7 56.1 56.8 57.1 25 701 37.1 7-.7 5).3 70.4 70.4 71.8 72.1 65 71.1 71.9 71.8 47.5 55.8 59.5 53.3 66.7 68.7 69.7 6€ 21301 38.1 44.6 51.4 53.2 71.4 71.4 71.3 72.1 72.3 72.8 72.8 73.1 67.5 67.7 56 . 3 64.3 1432| 38.1 1530| 39.1 1733| 47.5 49.5 57.5 61.2 65. J 68.4 79.4 12.1 72.1 72.4 72.8 73.5 73.5 73.5 73.8 5 5 . 4 73.8 73.8 53.3 59.2 62.9 66.7 70.1 72.1 74.1 74.5 75.2 75.2 75.2 75.5 89.1 17001 44.21 9001 44.21 9001 44.6 7001 45.0 6001 45.6 92.1 97.5 97.8 66 67.7 73.8 39.8 90.5 91.8 91.8 91.8 92.2 74.1 74.5 83.3 83.7 86.7 87.1 89.8 89.1 90.1 90.5· 92.2 92.5 58.5 61.9 68 . J 78.6 90.8 92.2 92.2 91.2 92.5 92.9 58.8 78.9 92.5 63.4 68.4 88.4 6 £ 59.9 73.1 79.9 84.7 90.5 91.8 92.9 94.2 53.0 63.2 76.2 95.6 89.1 65 5001 45.6 90.6 91.2 93.2 94.9 94.9 94.9 95.2 62.2 63.6 73.1 85,4 89.1 92.5 \$3.5 76.2 4001 45.6 3301 45.6 2301 45.6 96.6 94.6 95.7 95.7 ı٤ 90.6 F1.0 92.2 93.9 75.2 96.9 73.1 93.1 96.6 96.6 υE 50.2 63.6 70.4 76.5 86.1 93.8 92.9 94.6 97.3 97.3 97.6 97.6 94.6 95.9 70.4 91.0 86.1 1001 45.6 90.8 4 E 57.2 73.4 93.2 04.4 96.3 99.3 98.3 98.3 99.3 21 45.6 93.2 6 E 63.2 63.6 70.4 76.5 91.0 86.1 93.8 24.9 95.6 76.3 98.3 98.3 98.3 100.0

GLOBAL CLIMATOLOGY BRANCH USAFETAC AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CFILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

STA	TION H	ს₩9€₽:	221137									MONTE		HOURS	(LST):	0630-08	00
/ 6 11	LING	• • • • • •	• • • • • •			• • • • • •	• • • • • •		774 74	HUNDREDS	OF ME	1000	• • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	
I		G I	GE.	GE	GE	GE	ć:	GE	GF	GE	GE	GE.	Gŧ	GE	GE	GE	GE
FEE		167	9:	83	63	48	46	32	24	2 9	16	17	10	O E	5.	4	O.
				· · · · · · · ·											_		
• • • •	• • • • • •				• • • • • • • •	• • • • • •	•••••	• • • • • • •	• • • • • • •	• • • • • • • •				• • • • • • •			
NO (CEIL	27.2	22.6	24.4	26.1	28.2	29.6	31.4	32.4	32.4	32.8	33.1	33.4	34.5	34.5	34.5	34.5
GΕ.	106303	22.6	23.€	24.7	26 • 8	28.9	36.3	32.4	33.4	33.4	33.8	34.1	34.5	35.5	75.5	35.5	35.5
SE	ianadi	23.6	23.0	24.7	20.8	28.9	30.3	32.4	33.4	33.4	33.€	34.1	34.5	35.5	35.5	35.5	35.5
	100701		23.5	24.7	26.8	29.9	30.3	32.4	33.4	33.4	33.8	24.1	34.5	35.5	75.5	35.5	35.5
	140001		23.0	24.7	26.5	29.9	70.3	32.4	33.4	33.4	33.8	34.1	34.5	35.5	35.5	35.5	35.5
	125001		23.0	24.7	26.8	28.9	36.3	32.4	33.4	33.4	33.8	34.1	34.5	35.5	35.5	35.5	35.5
uf :	ishadl	27.9	31.7	53.3	37.6	47.1	41.5	44.3	45.6	45.6	46.C	46.3	46.7	47.7	47.7	47.7	47.7
SE	90001	27.9	31.7	33.8	37.6	40.1	41.5	44.3	45.6	45.6	46.0	45.7	46.7	47.7	47.7	47.7	47.1
úξ	87001		31.7	33.a	37.6	43.1	41.5	44.3	45.6	45.6	46.C	45.7	46.7	47.7	47.7	47.7	47.7
ù E	73031		31.7	33.5	37.6	40.1	41.5	44.3	45.6	45.6	46.C	46.3	46.7	47.7	47.7	47.7	47.7
υĒ	60001	27.9	31.7	33.8	37.5	40.1	41.5	44.3	45.6	45.6	46.0	46.7	46.7	47.7	47.7	47.7	47.7
GE	50001	23.2	32.1	34 • 1	38.0	40.4	41.8	44.6	46.C	46.0	46.3	46.7	47.C	48.1	48.1	48.1	48.1
υE	45001	28.6	32.4	34.5	38.3	40.3	42.2	44.9	46.3	46.3	46.7	47.7	47.4	48.4	48.4	48.4	48.4
u F	40001	30.7	34.5	36.6	43.8	43.2	44.6	47.4	48.8	48.8	49.1	43.5	49.8	50.9	50.9	59.9	50.9
6 F	35301	31.7	35.5	37.6	41.8	44.3	45.6	48.4	49.8	49.8	50.2	57.5	40.9	51.9	51.9	51.9	51.9
G E	31001	33.4	37.3	39.4	43.6	46.3	47.4	50.2	51.6	51.6	51.9	57.3	52.6	53.7	53.7	53.7	53.7
üΕ	2560		50.2	53.7	58.9	63.1	65.2	67.9	69.3	70.0	70.4	77.7	71.1	72.1	72.1	72.1	72.1
, 5	andal		50.5	54	59.2	63.4	65.5	68.3	69.7	10.4	70.7	71.1	71.4	72.5	72.5	72.5	72.5
G F	1800		51.2	54.7	59.9	64.1	56 • Z	69.3	70.4	71.1	71.4	71.2	72.1	73.2	73.2	73.2	73.2
úΕ	1,001		54.0	57.5	52.7	66.7	69. J	71.8	73.2	73.9	74.2	74.6	74.9	76.0	76.D	76.0	76.U
υE	12001	49.8	53.5	63.5	67.7	74.5	77.4	81.9	85.4	86.8	98.2	89.2	9.5	90.6	93.6	90.6	90.6
GE	1757	5:.2	59.2	54.5	73.4	75.3	76. C	82.6	86.1	87.5	88.5	60.0	90.2	91.3	01.3	91.3	91.3
<u>.</u> -		50.5	59.6	64.3	71.1	76.5	79.1	83.6	87.1	88.5	99.9	97.9	91.3	92.3	92.3	92.3	92.3
u.F		51.2	63.3	65.5	71.3	76.7	79.8	84.3	87.6	69.2	9C.6	91.6	92.0	93.0	93.G	93.0	93.0
SE		51.7	63.6	65.7	72.1	77.5	50.1	84.7	88.2	89.5	91.3	92.3	92.7	93.7	93.7	93.7	93.7
üς		51.2	67.6	65.9	72.1	77.3	90.1	84.7	98.2	87.5	91.3	97.3	92.1	93.7	93.7	93.7	93.7
								• • • •		• • • •							
υE	5001	51.2	63.6	65.7	72.1	77.5	30.1	84.7	88.2	89.5	91.3	92.3	92.7	93.7	93.7	93.7	93.7
GE	4331	51.2	60.6	65.9	72.5	77.7	P1.2	85.7	89.2	95.9	92.7	93.7	94.1	95.1	95.1	95.1	95.1
6 E		51.2	63.6	65.9	72.5	77.7	61.2	85.7	99.5	91.6	93.4	94.9	95.1	96.2	96.2	96.2	96.2
GΕ	2321	51.2	5) • 6	55.7	72.5	77.7	-1.2	85.7	89.9	92.0	93.7	95.1	95.5	97.6	99.7	99.7	99.7
υ£	1.01	51.2	60.6	55.7	72.5	77.1	91.2	85.7	89.9	12.0	93.7	95.1	95.5	97.6	120.0	100.0	100.0
SE	~!	:1.2	63.6	65.9	72.5	77.7	31.2	85.7	8).9	92.2	93.7	95.1	95.5	97.6	100.0	100.0	100.0

GLOBAL CLIMATOLOGY BRINCH USAFETAC AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CFILING VIRSUS VISIBILITY FROM FOURLY OBSERVATIONS

STATION NUMBER: 221130 STATION NAME: MURMANSK USSR PERIOD OF RECORD: 78-87 MONTH: JAN POURSILSTI: 0900-1100 VISIBILITY IN MUMDREDS OF METERS CEILING IN 1 CT FEET 1 166 G E 32 6E 24 GE 20 GE Gr GF GE GE GE GΕ GE GE 160 ان ۹ 3 48 ັນ 40 υ 6. NO CETE 1 20.1 23.7 25.4 27.1 29.1 31.8 33.1 34.4 35.1 35 . 8 35 . 6 36.1 36.5 36.5 36.5 36.5 3 C. A 36.1 23.7 25.4 27.1 29.1 31.8 33.1 34.4 35.1 35.8 36.5 76.5 16.5 36.5 3°.8 6E 18700| 20.1 6E 18700| 20.1 6E 14700| 20.1 ₹5.8 36.5 23.7 25.4 25.4 27.1 29.1 31.8 33.1 34.4 35.1 36.1 36.5 36.5 36.5 36.5 31.6 33.1 34.4 35.1 15.8 36.1 25.4 25.4 2 5 . 7 27.1 29.1 71.8 33.1 34.4 35.1 35. 5 76.1 36.5 36.5 36.5 36.5 36 - 1 SE 120031 20.1 31.8 34.4 33.1 47.5 47.5 48.2 48.5 48.5 48.5 48.5 5E 103031 27.4 75.4 35.3 37.5 39.5 42.8 44.5 45.8 46.8 90001 27.4 80001 27.4 70001 27.8 42.8 42.8 46.8 46.8 35.5 39.5 44.5 47.5 47.5 44.2 48.5 48.5 48.5 49.5 48.5 33.4 37.5 45.8 37.5 37.8 45.8 46.2 47.5 48.2 G.F 33.4 46.5 36.1 40.5 6 F 60001 27.8 37.8 43.1 44.8 46.2 47.2 47.5 48.9 48.8 46.8 45.8 5737| 28.1 4533| 28.1 4733| 29.1 49.3 49.2 49.2 49.2 68 34.1 36.5 38 - 1 40.1 43.5 45.2 46.5 47.5 49.2 44.8 49.2 40.7 50.5 51.7 49.2 49.8 49.2 43.5 44.8 47.5 48.2 49.2 49.2 υE 36.5 37.5 47.1 45.2 47.2 46.5 48.8 34.1 38 - 1 51.5 ١٠E 39.5 41.5 50.5 51.2 51.5 51.5 35031 20.8 ₹6.1 52.2 52.2 GE 39.0 40.1 42.1 45.5 47.9 49.5 50.5 51.2 51.9 52.2 42.4 52.8 49.8 69.2 69.9 70.7 71.2 71.7 71.9 71.9 71.9 52.4 62.9 71.2 72.2 73.2 71.6 77.6 77.5 2001 41.5 18001 42.5 50.8 51.8 50 • 5 57 • 5 57.7 67.9 64.2 65.2 66.9 69.2 70.6 71.6 72.0 73.6 73.2 74.2 73.2 74.2 6 F 53.4 73.2 73.2 54. 74.2 74.2 56 15071 42.9 61.5 65.9 77.3 74.6 75.3 92.6 55 ... 72.6 75.3 9 .6 93.0 6.3. 61.2 81.3 86.0 48.0 10001 45.8 59.9 63.5 89.6 33.0 41.7 92.3 93.3 93.6 93.6 GΕ 61.4 72.9 77.9 81.9 86.6 93.6 86.6 87.1 9001 45.8 59.9 63.2 0/.9 77.9 81.9 89.7 3.00 91.3 92.3 73.3 73.6 93.6 93.6 91.6 9.0 9.3 92.6 Ú.E 55.: 68.2 73.2 78.3 93.3 93.6 95.7 94.0 94.0 94.0 88.0 68 . £ G.F 6 JOL 46.8 64.5 63.9 79.3 89.3 90.3 92.0 C4 . 5 95.3 25.7 95.7 95.7 91.6 5 5 1001 46.8 6:.9 64.5 64.4 74.2 79.3 83.3 88.6 90.6 92.3 94.6 95.7 96.3 95.0 96.0 6 <u>5</u> 5 5 63.9 74.2 83.5 88.6 92.3 24.7 96.3 97.3 96.7 97.3 96.7 4351 46.8 64.5 68.9 79.3 90.6 25.3 96.7 30.6 95.7 7001 46.0 62.5 64.5 63.9 74.5 19.6 91.3 93.0 96.3 97.3 5 F 2,21 45.8 67.9 64-5 69.2 74.9 79.9 87.9 89.6 71.6 23.3 96.7 98.7 98.3 98. 1 98.3 137 46.8 96.7 100.0 83.9 89.6 +1.6 98.3

93.9

89.6

91.6

93.3

30.2

96.7

98.3

98.3

99.0 100.0

TOTAL NUMBER OF OBSERVATIONS: 249

6 2. 9

J1 46.8

65

GLOBAL CLIMATOLOGY BRANCH AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 221130 STATION HAME: MURMANSK USSR

PEFIOD OF RECORD: 78-87 MONTH: JAS HOURS(LST): 1200-1400 VISIBILITY IN HUNDREDS OF METERS
OF GE GE GE C CEILING G <u>∈</u> 5 1 61 GE 9 E 6.E 8.3 6 E 4 S G L - 32 GΕ ? 4 GE 20 r.E. G۶ GE GE GE D FELT | 100 16 CI _ 8 6 J Ψ Ω 40 CEIL | 13.3 16.4 18.5 17.0 22.4 29.3 29.7 31.5 32.5 32.5 12.5 33.2 33.2 33.2 33.2 26.6 SE 200501 15.4 29.7 32.9 36.4 36.4 35.7 35.7 35.7 GE 197301 15.4 GE 161031 15.4 19.2 21.7 22.7 25.5 25.5 29.7 29.7 31.5 31.5 32.9 32.9 34.6 34.6 35.7 35.7 35.7 35.7 36.4 36.4 36.4 26.4 36.4 36.4 36.4 36.4 GE 147001 15.4 GE 127001 15.4 76.4 76.4 17.1 32.9 34.6 35.7 35.7 36.4 36.4 36.4 19.2 21.7 22.7 29.7 31.5 32.9 34.6 35 . 7 36.4 36.4 39.2 45.8 GE 100001 27.8 29.4 32.4 35.3 43.4 48.6 50.3 51.4 51.4 51.7 52.4 52.4 52.4 52.4 90001 23.8 80001 23.8 70001 23.8 29.4 32.9 32.9 32.9 52.4 52.4 52.4 52.4 υE 35 • 3 39.2 43.4 45.8 48.6 50.3 51.4 51.4 51.7 52.4 52.4 52.4 13 E 35 - 3 39.2 43.4 45.8 48.5 51.7 50.3 51.4 43.4 45.8 θ£ 35.3 48.6 6' 301 23.8 29.4 39.2 45.8 51.4 51.7 52.4 52.4 52.4 undol 23.8 45.01 24.1 41.01 24.8 35.00 25.9 30.01 26.6 ΘE 29.4 32.9 35.3 39.2 43.4 45.8 48.6 50.3 51.4 51.4 51.7 52.4 52.4 52.4 52.4 52.8 27.7 33.2 33.9 35.7 36.4 51.7 51.7 52.1 52.8 52.8 52.8 53.8 υE 39.5 43.7 46.2 49.0 51.7 57.8 57.8 53.6 47.2 49.7 51.4 53.1 53.8 53.8 44.4 46.9 52.4 1, 5 31. 15.0 37.4 41.3 45.5 47.9 50.7 51.R 54.2 54.3 54.9 54.9 54.9 49.0 54.9 54.9 55.9 55.9 55.9 55.9 55.2 36 ..) 42.3 51.7 UL 39.5 46.5 25001 34.6 20001 35.7 19001 35.7 72.4 77.4 74.1 44.1 45.1 45.1 40.0 52.8 57.5 u1.5 64.3 68.5 73.6 72.0 73.1 73.8 73.8 73.e 73.8 6 F 50.0 51.0 53.5 58.4 62.6 65 • 4 69.6 71.7 73.1 74 - 1 74.8 75.5 74.8 75.5 74.8 74.8 75.5 74.A G.F. 53.4 72.4 73.1 73.8 63.3 66.1 70.3 45.s 5 1.7 15001 36.4 57.1 75.5 ٠, ٢ 12001 38.1 55.3 61.9 67.5 73.8 77.3 83.2 46.7 98.8 40.5 71.6 93.0 23.0 93.0 93.5 1730| 30.5 917| 38.5 933| 30.6 57.3 57.3 57.3 92.6 94.1 94.4 GΕ 51.0 52.5 62.9 92.7 69.5 74.5 79.0 84. 3 87.8 99.9 94.1 94.1 94.1 93.4 ĢΕ 10.0 69.9 74.8 75.2 90.2 94.4 94.4 94.4 78 · 3 84.6 88.1 88.5 í.E 51.4 62.9 64.9 85.C 90.6 91.3 94.3 94.8 94.8 94.8 51.7 57.7 5.5 63.3 67.2 75.5 79.0 95.3 90.9 91.5 95.1 95.1 95.1 95.1 93.7 69.2 75.5 75.9 75.9 19.3 69.P 6. 5 5 - i. | 19.5 1.7 57.1 63.5 69.2 9.50 91.5 93.7 95.1 95.1 95.1 35.1 85.3 4 31 38.5 7071 38.5 91.7 G F 57.7 85.1 85.7 89.7 92.G 92.3 #2.7 97.7 96.2 53.3 69.6 77.4 94.8 96.2 96.2 96.2 51.7 57.7 63.3 69.6 79.4 95.1 96.5 96.5 96.5 1, 6 2011 34.5 51.7 58.0 63.6 45.4 7€.2 79.7 86.0 90.2 92.7 93.4 93.4 95.5 97.6 ¢8.6 99.6 98.6 79.7 86.0 11.7 58.0 99.2 99.3 63.6 76.2 C2.1 95.5 97.6 98.6 1 39.5 51.7 69.9 95.5 υĘ 59. 63.6 76.2 19.7 90.5 92.7 93.4 97.5 98.6 99.3 100.0 90.2

ULBHAL CLIMATOLOGY BRANCH PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY USABILITY OBEGRAVATIONS FROM FOURLY OBEGRAVATIONS.

STATION NUMBER:	221130	STATE	CN NAME:	MURM	ANSK US	S R				001030	OF PEC	DFD: 78	-67		
										HONTH	: JA'ı	HOURS	(LSTI:	1500-17	co
* * * * * * * * * * * * * * * * * * *	• • • • • •	• • • • • •									• • • • • •	• • • • • • •	• • • • • • •	• • • • • •	• • • • • • • • • • • • • • • • • • • •
CEILING IN 1 CT	GŁ.	6.0	6 F	GE	CE.	G E A I 2 I B I C	GE	⊬LNDREDS GE	GE	LERS SE	6.6	GE	GΕ	GE	GE
FEET 160	90	33	6 U	45	4.3	32	24	20	16	1.7	13	8	5	4	O.
************				-											
						• • • • • • • • • • • • • • • • • • • •		• • • • • • • •							
40 CEIL 12.8	19.1	20.4	22.4	24.7	27.6	29.3	31.9.	32.9	33.2	31.9	34.5	34.5	34.5	34.5	34.5
6F 2U030 15.5	22.4	24.3	26.3	28.6	31.0	33.2	36.2	37.5	37.8	30.5	39.5	39.5	39.5	39.5	39.5
66 1ac301 15.5	22.4	24.5	26 • 3	29.6	31.6	33.2	36.2	37.5	₹7.5	30.5	30.5	39.5	79.5	39.5	39.5
OE 157001 15.5	22.4	24.3	26.3	28.6	31.6	33.2	36.2	37.5	37.A	30.5	19.5	39.5	19.5	39.5	39.5
UE 147811 15.5	22.4	£4.5	26.3	29.6	31.6	33.2	36.2	37.5	37.8	32.5	37.5	39.5	39.5	39.5	39.5
6F 12963 15.5	22.4	24.1	25 • 3	28.0	21.6	33.2	36.2	37.5	37.8	3 ? • €	37.5	39.5	39.5	37.5	39.5
ef 100001 22.7	30.6	32.9	38.2	41.4	45.4	47.4	51.6	53.6	54.3	50.0	55.7	55.9	55.9	55.9	55.9
a£ 9'0J 22.7	33.€	32.4	38 • 2	41.4	45.4	47.4	51.6	53.6	54.3	54.9	55.9	55.9	5.5.9	55.9	55.9
6E 8137 22.7	75.6	32.7	38 • 2	41.4	45.4	47.4	51.6	53.6	54.3	54.9	55.9	55.9	5.5.9	55.9	55.9
6E 71001 22.7	?) • 0	32.9	38 • 2	41.4	45.4	47.4	51.6	53.6	54.3	54.7	55.9	55.9	55.9	55.9	55.9
C: 6757 22.7	30.6	32.3	38 • 2	41.4	45.4	47.4	51.6	53.6	54.3	54.7	55.9	55.9	55.9	55.9	55.9
0E shunt 23.0	37.4	33.2	30 ∙ 5	41.8	45.7	47.7	52.0	53.9	54.6	80.4	56.3	56.3	56.3	56.3	56.3
6E 4533 23.4	31.3	33.6	33.8	42.1	46.1	48.0	52.3	54. ?	54.9	55.6	55 + 6	56.6	-6.6	56.6	56.6
of 4 ust 24.3	22.2	34.5	39 • 9	43.1	47.3	47.E	53.3	55.3	55.9	54.6	57.6	57.6	57.6	57.6	57.6
65 35001 24.7	33.6	34.9	49 • 1	43.4	47.4	49.3	53.6	55.6	56.3	51.9	57.9	57.9	57.9	57.9	57.9
65 Shuni 25.3	73.2	35.5	40.5	44.1	46.3	50 • C	54.3	56.3	50.5	5 '.6	5ª • 6	53 • 6	€3.6	5º•6	58.6
65 25531 31.9	92.4	45.7	52.6	55.9	66.9	62.8	67.8	70.7	71.7	72.4	73.7	74.7	74.0	74.0	74.0
65 2 001 12.6	43.1	46.4	53.3	56.6	61.5	63.5	68.4	71.4	72.4	77.7	74.3	74.7	74.7	74.7	74.7
GF 1+ (0) 33.4	49.1	47.4	54.3	57.6	62.8	64.8	69.7	72.7	73.7	74.3	75 • 7	76.0	76.3	76.0	76.0
9E 15501 34.2	45.1	48.4	55.5	58.9	64.8	66.8	71.7	75.3	76.C	71.5	78.J	78.3	73.3	78.3	78.3
(6 1-51 3/45	49.0	52.3	63.9	65.5	74.0	17.6	84.5	08 • B	93.5	91.1	93.1	93.4	93.8	93.8	93.8
UF 11001 36.5	47.	52.3	61.9	65.5	74.5	77.6	84.5	48.9	90.5	91.1	93.1	93.4	93.8	93.8	93.8
65 9571 36.5	47.7	53.	61.5	66.1	74.7	78.3	85.2	89.5	91.1	71.7	93.6	94.1	9.40	94.4	94.4
OF 9601 36.5	47.7	53.	51.5	56.1	74.7	78.3	A5.2	89.5	91.1	71.9	≎3.0	94.1	94.4	94.4	94.4
7011 36.8	5 1. /	53.0	62.5	67.1	75.7	79.3	86.2	90.3	92.4	٠°. ١	9 . 1	75.4	95.7	95.7	95.7
6E 6E31 36.8	51.2	54.3	62.0	67.4	76.0	79.9	86.8	91.4	93.1	₹7.8	76 • 1	94.4	96.7	96.7	96.7
C. c 1 - 26 * 8	51.0	54.1	62.5	67.4	76.C	19.9	86.8	91.4	93.1	93.9	96.1	96.4	96.7	96.7	96.7
6E 4001 35.8	51.	54 • ?	62.4	67.4	76.0	79.9	96.8	71.4	93.8	94.4	96.7	97.3	27.4	97.4	97.4
0 107 30.0	\$1.5	54.3	62.5	67.4	76.0	79.9	8.63	71.4	04.1	74.7	91.0	97.4	97.7	97.7	97.7
- 95 - 2011 21 - 5	1 1	54.3	62.8	67.4	76.0	79.9	96.6	91.4	ou . 1	94.7	97.0	98.7	98.7	98.7	98.7
UE 1001 06.8	51.5	54.3	62.8	67.4	76.C	79.9	86.8	91.4	C4 • 1	94.7	97.3	98.0	99.0	99.0	99.0
6F .1 36.F	51.0	54.3	52.5	67.4	76. ℃	77.9	86.8	91.4	24.1	94.7	97.9	98.3	63.3	99.0	100.0

GEGRAL CLIMATOLOGY BRANCH PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VEHSUS VISIBILITY USAFETAGE FROM FOURLY OBSERVATIONS AIR WEATHER SERVICE/MAC

ST	ATIC	ta ta	UMBER:	221130	STATI	ON NAME :	MURH	ANSK US	SR				PF b I OD	UF REC	0RD: 78	-87		
								_	-				MONTH	: JAtı	HOURS	(LST):	1830-25	00
			• • • • • •	• • • • • • •	•••••	• • • • • • •								• • • • • • •	• • • • • • •	• • • • • •	• • • • • • •	• • • • • • • • •
	IL I <i>1</i> In	υ I			σE	GE	GŁ	GΕ	GE GE	TIV IN	HUNDRED GE	S OF ME	TERS FE	98	GΕ	30	GΕ	GE
	EET.	-	61 160	ور می	9 E 60	67 nr	13 E 4 B	4.5	32	24	23	16	12	10	9	υ _ε 5	υ <u>ς</u>	0.
										-						-		
• •				• • • • • • • • • • • • • • • • • • • •														
N O	CLI	LI	19.0	23.5	25.2	28.6	31.n	32.3	35.0	37.4	37.4	37.8	38.4	39.1	39.1	39.1	39.1	39.1
			21.8	26.5	28.2	31.6	34.0	35.4	38.1	40.5	40.5	40.8	41.8	42.5	42.5	42.5	42.5	42.5
			21.0	26.5	28.2	31.6	34.0	?5.4	3A . 1	40.5	40.5	40.8	41.4	42.5	42.5	42.5	42.5	42.5
			21.8	26.5	28.2	34.6	34.0	35.4	38.1	40.5	43.5	40.8	41.8	42.5	42.5	42.5	42.5	42.5
			21.8	26.5	28.2	31.6	34.0	35.4	38.1	40.5	40.5	40.8	41.8	42.5	42.5	42.5	42.5	42.5
ĢΕ	1.	001	21.8	26.5	28.2	31.6	34.0	35.4	38.1	40.5	40.5	40.8	41.8	42.5	42.5	42.5	42.5	42.5
6 F	16.7	201	28.6	36.1	38.4	42.5	45.6	47.6	51.4	55.4	55.9	56.1	5 - 6	59.2	58.2	58.2	58.2	58.2
υE			28.6	36.1	38.4	42.5	45.6	47.€	51.4	55.4	55.8	56.1	57.5	58.2	58.2	58.2	58.2	58.2
ÚΕ			28.6	76.1	39.4	42.5	45.6	47.6	51.4	55.4	55.8	56.1	57.5	58.2	58.2	58.2	59.2	58.2
5.5	7	130	28.6	36.1	39.4	42.5	45.6	47.6	51.4	55.4	55.8	56.1	57.5	58.2	58.2	58.2	58.2	58.2
ί£	6.5	100	28.6	36.1	30.4	42.5	45.6	47.6	51.4	55.4	55.8	56 - 1	57.5	58.2	58.2	58.2	58.2	58.2
0 E			28.9	36.4	38 • E	42.9	46.3	48.3	52.0	56.5	56.9	57.1	50.5	59.2	59.2	59.2	59.2	59.2
6.5			20.9 30.3	76.4	38.6	42.9	46.3	48.3	52.0	56.5	56.8	57.1	58.5	59.2	59.2	59.2	59.2	59.2
7.5			21.0	37.6	40.2	44.2	47.6	49.7 55.3	53.4	57.8	58.2	58.5	50.0	60.5	60.5	60.5	60.5	6C.5
G E			32.0	38.4 39.5	40.8 42.2	44.9 46.3	48.3	51.7	54.1 55.4	58.5 59.9	58.8 60.2	59.2 60.5	67.5 61.9	61.2 62.6	61.2 62.6	61.2 62.6	61.2 62.6	62.6
3.0	.,	0.1	32.0	3 7 6 3	72.12	1013	*	3407	3,1.7	3,4,	00.2	00.5	01.	62.0	02.0	02.0	0.0	02.0
6 E	2 *	.01	40.8	F2.4	56.1	61.9	65.3	66.7	72.4	77.2	78.2	78.€	79.9	80.6	80.6	80.6	89.6	6 C • 6
UΕ	2"	u 11	40.8	52.4	56.1	61.9	65.3	60.7	72.4	77.2	78.2	78.6	79.9	83.6	80.6	90.6	87.6	80.6
ьE			41.2	F2.7	56.5	62.2	65.5	69.0	72.8	77.6	78.6	78.9	8 ~ • 3	0.19	81.3	81.0	81.0	81.0
GΕ			42.2	54.4	55.7	63.9	67.3	70.7	74.5	79.3	80.3	RC . 6	87.0	82.7	82.7	92.7	82.7	82.7
C.E	1.7	OD!	43.9	58.2	62.6	69 . U	72.5	77.6	82.0	87.4	a9.1	97.1	9:.8	93.2	93.2	93.2	93.2	93.2
ŭ.F		1	6.7.0	6.1.4		46.3												
6 E			43.9	58.5 58.6	67.9	69.7 75.1	73.5 73.5	78.2 78.6	82 • 7 8 3 • D	88.1 88.4	89.8 90.1	90.8 91.2	92.5 92.9	93.9	93.9 94.2	93.9	93.9 94.2	93.9 94.2
0.5			43.9	59.2	63.6	75.4	74.1	78.9	83.3	88.8	90.5	91.5	93.2	94.6	94.6	94.6	94.6	94.6
6.5			43.9	59.4	54.3	71.1	75.2	79.9	84.4	89.8	91.8	92.9	94.6	95.9	95.9	95.9	95.9	95.9
3.7			47.0	£ 7	64.3	71	75.2	79.5	84.4	90.1	92.2	93.2	94.9	96.3	96.3	96.3	96.3	96.3
	`	U.C. 1		,	0 1 . ,			.,,,,	04.4	/0.1	,,,,,	,,,,,	, - ,	70.13	70.5	70.5	,0,3	90.3
ر٦	t	.01	43.9	59.4	64.6	7:.4	75.5	80.3	84.7	90.5	92.5	93.5	95.2	96.6	96.6	96.6	96.6	96.6
U.S			43,0	59.9	64.6	71.4	75.9	P 0 • 6	85.0	90.8	92.9	73.4	9 t 6	96.9	96.9	96.9	96.9	96.9
4. E.			43.4	59.9	64.6	71.8	76.2	81.G	85.4	91.2	93.2	94.6	96.3	97.6	97.6	97.6	97.6	97.6
6.5			47.6	52.9	64.5	71.00	76.2	81.U	85.4	91.5	¥3.5	34.6	96.6	78.0	98.6	99.0	99.0	99.0
€ €	1	re1	47.9	59.9	64.6	71.8	76.2	31.0	85.4	91.5	93.5	74.9	96.6	98.0	98.6	99.0	99.3	100.0
L.F		~ 1	43.9	59.9	64.6	71.0	76.2	e 1 • D	85.4	91.5	93.5	94.9	96.6	78.3	98.6	99.0	00.7	100.0
			, , , , ,	77.7	34.0	74.5	10.2	¢ T+ Ω	05.4	A1 . 2	A 2 • 2	74.9	30.40	70.1	75.0	44.0	77.3	*00.0

CLUBAL CLIMATOLOGY PRANCH

PERCENTAGE FREQUENCY OF OCCURPENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

AIR WEATHER SERVICE/MAC

STATION NUMBER: 221130 STATION NAME: HURMANSK USSR

PERIOD OF FECORD: 78-87 MONTH: JAN.

VISIBILITY IN HUNDREDS OF METERS

GE GE GE GE GE MONTH: JAN HOURS (LST): 2100-2300 CEILING 1 61 GE GE 6 E 32 GE 24 GŁ GE. GΕ GE GE FEET | GI 23 17 91 9.0 40 16 ن 1 8 NO CEIL | 15.6 34.8 35.8 36 • 1 16.1 36.1 20.5 22.5 23.8 1.93 30.1 31.5 33.4 36.1 GE 200 GG 17.9 23.2 25.2 26.8 31.5 33.4 34.8 36.8 38.1 39.1 25.2 34.8 6E 18000| 17.9 23.2 26.0 31.5 33.4 36.8 38.1 30.1 39.1 39.1 39.4 39.4 39.4 39.4 39.1 GE 160001 17.9 CE 140001 17.9 23.2 25.2 25.2 34.1 19.4 26.8 31.5 33.4 34.8 36.8 36.1 38.1 39.4 39.4 39.4 34.1 39.1 18 - 1 38.1 26.5 31.5 33.4 34 .8 36.€ 38 - 1 39.1 39.1 39.4 50. t 51.3 51. t 29.1 31.5 35 . 8 41.4 44.C 45.7 48.7 50.1 50.3 51.3 52.0 52.0 52.0 52.0 90001 22.8 80001 22.8 70001 22.8 60001 22.8 51.3 (, F 29.1 29.1 31.5 35 . t 41.4 44.0 45.7 48.7 50.0 50.3 52.0 52.0 52.0 52.0 35.8 50.3 -1.3 52.0 52.0 52.C 44.0 45.7 48.7 50.0 (, Ł 50.3 50.7 51.3 29.1 31.5 35 . 6 45.7 50.0 50.3 52.1 52.0 52.0 52.0 50.3 51.3 31.5 44.0 41.4 45.7 50.0 49.C C E 50001 23.2 41.7 44.4 50.3 50.7 51.7 52.3 52.3 52.3 52.3 29.5 31.8 36 • 1 46.0 45001 23.5 40001 24.8 35001 25.2 30001 25.5 29.8 31.1 31.5 51.0 53.3 51.0 52.6 52.6 37.1 44.7 49.3 50.7 52.0 52.6 52.6 36 . 4 42.1 46.4 6 F 36 • 1 78 • 4 43.7 44.0 46.4 48.0 48.3 51.0 52.6 54.3 55.0 55.0 54.6 53.0 53.6 48.7 55.0 55.6 55.6 75.5 76.5 25001 35.8 6:.6 71.5 74.5 6 F 47.7 5 C • 7 55.6 65.6 67.9 73.8 74.5 76.2 76.5 76.5 2000 37.1 1900 37.4 1900 37.7 49.(75.8 75.8 76.8 77.5 77.8 77.8 CE 52.0 52.8 63.9 64.6 69.2 72.8 75.2 77.8 57.0 66.9 49.7 CL.3 73.5 76.5 77.5 57.6 67.5 69.9 76.5 77.5 78.1 78.5 78.5 78.5 65.6 70.9 77.5 78.5 91.4 53.3 58.6 68.5 76.8 79.1 79.5 79.5 79.5 90.4 1' [0] 4".7 50.6 79.1 87.4 90.1 90.7 97.7 91.7 92.7 93.4 93.4 93.4 900| 40.7 600| 40.7 700| 40.7 92.1 92.4 95.7 74.5 74.8 83.1 83.4 91.1 93.0 (E 56.5 57.9 66.2 79.5 87.7 90.4 91.1 93.7 93.7 56.6 90.7 93.4 94.0 94.0 60.3 79.8 91.4 88.1 66.6 T-E 57.3 60.9 67.5 75.8 8C.8 89.1 91.7 92.4 52.4 92.7 93.4 95.0 95.0 95.0 6651 41.1 92.7 93.7 υF 57.6 61.3 67.5 76.2 P1.1 84.8 89.4 92.1 95.4 95.4 95.4 5501 41.1 92.7 93.7 95.4 G.E. 57.6 6:.3 67.9 92.1 93.7 94.7 95.4 95.4 76.2 91.1 84 . A 89.4 9201 91-1 57.5 94.4 94.4 97.0 61.6 68.5 81.8 85.4 90.4 93.7 95.4 96.4 97.0 97.0 ĿΕ 76.8 CE 7001 41.1 7001 41.1 57.9 61.6 68.5 76.8 81.6 65.4 93.4 94.7 94.7 94.7 95.7 96.7 97.4 97.4 97.4 66.5 85.4 90.4 94.4 95.0 76.J 98.7 61.6 76.8 91.8 98.7 €1.€ 90.4 96.0 97.7 99.3 6 F :1 41.1 57.9 61.6 68.5 76.0 81.8 85.4 90.4 94.4 95.0 95.9 96.0 97.7 99.0 99.0 100.0

GLOBAL CLIMATOLOGY BRANCH USAFETAC FROM HOURLY OBSERVATIONS AIR MEATHER SERVICE/MAC

ATION N	LMAER:	221135	STATI	CN NAME	: MURM	INSK US	42				PE # 100	OF PEC	DPD: 78	-87		
											MONTH		FOURS		ALL	
ILING		• • • • • •	• • • • • • •		• • • • • • •		AIZIBIL	ITY IN I	HUNDRED!	OF ME	TERS	• • • • • •	• • • • • • •		• • • • • • •	•••••
16.	61	GΕ	GE	GE	GE	GE	GE	GΕ	GE	GE	6.6	GF	GE	GE	GE	GE
•	166	95	98	63	4 d	4 ()	32	24	27	16	1.7	10	8	5	4	0
• • • • • • •		• • • • • •	• • • • • • •		• • • • • • •		• • • • • • •	• • • • • • •	• • • • • • •	• • • • • •	• • • • • • •	• • • • • • •	• • • • • • •		• • • • • • •	• • • • • • •
CETL 1	17.2	21.4	2300	24.8	27.7	29.9	31.7	33-4	34.1	34.6	34.4	35.4	35.9	75.8	35.8	35.8
200001	19.0	23.5	25.2	27.1	30.3	32.3	34.1	35.8	36.6	37.0	37.3	77.9	38 . 3	36.4	39.4	38.4
100001	19.C	23.5	:5.2	27.1	30.3	32.3	34 - 1	35 • 8	36.6	77.0	37.3	37.9	39 - 3	18.4	38.4	38.4
160001	17.0	23.5	15.2	27.1	30.0	72.3	34.1	35 • 8	36.6	37.0	37.3	37.9	38.3	78.4	38.4	38.4
14,001	19.5	23.5	25.2	27.1	30.0	32.3	34.1	35 • 8	36.6	37 . D	37.3	37.9	38.3	38.4	39.4	38,4
120001	10.0	23.5	25.2	27.1	3 11 € 14	?2.3	34.1	35 • 8	36.6	77.0	37.5	37.9	38 . 3	78.4	38.4	36.4
10762]	25.9	32.1	34.4	37.9	41.4	44.2	46.6	49.4	53.4	t ŋ. 9	51.3	51.9	52.4	52.4	52.4	52.5
900001	25.5	32.1	34.4	37.9	41.4	44.2	46.6	49.4	50.4	50.9	51.3	51.9	52.4	52.4	52.4	52.5
E1 U.34	25.9	32.1	34.4	31.9	41.4	44.2	46.6	49.4	50.4	50.9	51.3	51.9	52.4	52.4	52.4	52.5
71 201	26.€	32.1	34.4	37.9	41.4	44.2	46.7	49.4	50.4	50.9	51.3	52.0	52.4	52.5	52.5	52.5
6,001	26.1	32.2	74.5	38 • D	41.5	44.3	46.B	49.5	50.5	51.0	51.4	52 - 1	52.5	52.6	52.6	52.6
scual	26.3	32.4	34.7	38 . 2	41.8	44.5	47.0	49.8	50.8	51.3	51.7	52.4	52.8	52.9	52.9	52.9
45001	26.5	32.7	35.0	38 • 5	42.0	44.8	47.3	50.1	51.3	۴1.5	51.9	52.6	53.1	53.1	53.1	53.2
41.001	27.0	34.2	35.6	40.3	43.9	46.6	49.2	52.0	53.J	53.6	54.7	54.7	55.2	55.2	55.2	55.2
35001	29.5	34.8	37.2	40.8	44.5	47.2	49.8	52.7	53.7	54.3	54.5	55.3	55.8	55.8	55.8	55.9
30,001	29.3	35.7	39.1	41.8	45.4	48.2	50.7	53.6	54.6	55.2	55.6	56.3	56 • A	56.8	56.8	56.,
2:001	37.9	47.9	5:.2	55.9	60.2	63.7	66.5	70.0	71.7	72.4	72.9	73.6	74.3	74.4	74.4	74.4
21001	38.6	48.6	51.9	56.7	61.J	64.5	67.3	70.8	72.5	73.2	77.6	74.4	75 • 1	75.2	75.2	75.2
16001	39.7	49.2	53.6	57.3	61.7	€5.3	68.1	71.6	73.2	73.9	74.4	75.2	75.8	75.9	75.9	76.0
15 651	47.5	50.4	53.F	58 • 7	€3.1	66.8	69.6	73.1	74.8	75.5	76.7	76 . 8	77.4	77.5	77.5	77.5
10001	42.0	55.8	59.9	65.9	71.6	76.5	87.6	85.6	88.0	99.3	97.1	91.3	92.1	92.4	92.4	92.4
1-6-1	43.1	56.2	60.3	66.5	72.2	77.1	81.1	86.2	8.6	19.9	90.7	91.8	92.7	93.3	93.0	93.D
6331	43.1	55.5	5 2 . 6	66.8	72.5	77.5	81.5	86.6	87.0	30.3	91.1	92.2	93.1	93.3	93.3	93.4
۱۲:۱۹	4 ? . 4	56.9	51.0	67.2	72.9	77.8	81.9	87.0	89.3	90.7	9: 5	92.6	93.5	93.7	93.7	93.8
7001	47.7	57.6	51.7	68	73.8	78.7	82.8	87.9	90.4	າ1.8	97.7	93.8	94.7	94.9	94.9	94.9
* GD	47.8	57.7	51.9	68 • 2	74.3	78.9	83.0	99.2	90.7	72.1	97.7	24.1	95 . g	95.2	95.2	95.3
	43.8	57.1	52.0	63.3	74.1	79.1	83.2	88.5	90.9	92.3	93.2	04.4	95.2	95.5	95.5	95.5
	43.8	57.8	57.0	63.4	74.3	79.4	83.5	88.9	91.5	93.1	94.1	95.3	96.2	96.4	96.4	96.5
	43.E	57.8	62.5	68.5	74.4	79.5	83.7	89.2	92.0	93.6	94.6	95.9	96.8	97.3	97.0	97.0
	43. F	57.8	52.1	68.6	74.5	79.6	83.8	89.4	92.2	23.8	94.3	96.1	97.7	98.5	98.5	98.5
1.51	43.8	57·h	62.1	66 + 6	74.5	79.6	83.8	89.4	92.2	23.9	94.9	96 • 2	97.8	98.7	99.0	99.5
4	43.8	57.8	62.1	6.6	74.5	79.6	83.8	89.4	92.2	93.9	94.7	96.2	97.8	98.7	99.9	100.0

GEOBAL CLIMATCLOGY FRANCH USAFETAC FROM HOURLY OBSERVATIONS ATR WEATHER SERVICE/MAC

STATION NUMBER: 221130 STATE

STATION N	UMPER:	221130	57411	ON NAME:	MERM	ANSK US	S.R					OF REC				
											MONTH	-		(LS1):		
CEILING	• • • • • •	• • • • • •		• • • • • • •	• • • • • •	••••••	VISTAIL	TTY IN	HUNDRED:	S OF ME	TERS		• • • • • • •	• • • • • •	• • • • • • •	•••••
	G I	GE.	GE	ĿΕ	SE	GΞ	GE	GE	GE.	GE	50	G F	GE	GΕ	GE	GE
FEET I	100	90	C3	65	9.4	40	32	24	23	16	1.2	1.0	R	5	4	a
NO CEIL 1	23.4	33.3	35.6	36 . 4	37.5	37.5	37.5	37.5	37.9	78.7	33.7	39 - 1	39.1	39.1	39.1	39.1
JE Zaboal	32.7	37.5	30.4	45.6	41.3	41.8	42.1	42.1	42.5	43.3	43.3	43.7	43.7	43.7	43.7	43.7
)E 100301		37.5	39.8	43.6	41.0	41.8	42.1	42.1	42.5	43.3	43.3	43.7	43.7	43.7	43.7	43.7
35 16030F	32.2	37.5	39.8	4C.6	41.5	41.8	42.1	42.1	42.5	43.3	43.3	43.7	43.7	43.7	43.7	43.7
SE 147001	32.2	37.5	39.3	40.5	41.8	41.6	42.1	42.1	42.5	43.3	43.3	43.7	43.7	43.7	43.7	43.7
E 120001	32.2	37.5	30.9	43.6	41.8	41.8	42.1	42.1	42.5	43.3	43.3	43.7	43.7	43.7	43.7	43.7
E IJOSTI	43.6	46.7	49.4	51.3	52.5	52.5	53.3	53.6	54.0	54.6	54.9	55.2	55.2	r5.2	55.2	55.2
5 90001	40.6	46.7	49.4	51.3	52.5	52.5	53.3	53.6	54.0	54.8	54.6	55 • 2	55.2	55.2	55.2	55.2
, E 8 16 1 }	40.6	46.7	40.4	51.3	52.5	52.5	53.3	53.6	54.0	54.8	54.9	55.2	55.2	55.2	55.2	55.2
E 77031	40.6	46.7	49.4	51.3	52.5	c 2 • 5	53.3	53.6	54.0	54.8	54.9	55.2	55.2	55.2	55.2	55.2
∍E 6runl	47.6	46.7	40.4	51.3	52.5	52.5	53.3	53.6	54.0	54.8	54.8	55.2	55.2	55.2	55.2	55.2
r 50001	41.4	47.5	50.2	52.1	55.3	53.3	54.0	54.4	54.9	55.6	55.5	55.9	55.9	55.9	55.9	55.9
F 45001	42.1	48.3	51.3	52.9	54.0	£4. (j	54.8	55.2	55.6	56.3	56.3	56.7	56.7	56.7	56.7	56.7
F 40001	43.7	43.8	52.5	54.4	55.6	55.6	56.3	56.7	57.5	58.2	54.2	58.6	58.6	58.6	58.6	58.6
SE 35J01	44.8	51.0	53.6	55.6	56.7	56.7	57.5	57.9	58.6	59.4	57.4	59.8	59.8	59.8	59.8	59.8
รย เกลียไ	45.2	51.3	54.3	55.9	57.1	57.1	57.9	58.2	59.0	59.8	53.4	60.2	60.2	60.2	60.2	60.2
F 25301	5 7	69.3	72.4	74.7	75.2	76.2	77.4	79.7	o~ • •	A2.C	87.7	82.4	82.4	P 2 . 4	82.4	82.4
ie andol		70.5	13.9	76.2	77.8	77.8	78.9	81.2	82.4	83.5	83.5	43.9	83.9	A3.9	83.9	83.9
S 15 11		70.5	73.9	76	17.8	77.8	78.9	81.7	82.4	93.5	83.5	43.9	83.9	P 3 . 9	83.9	83.9
SE 15.01		72.3	75.5	77.3	79.3	79.3	80.5	82.8	83.	95.1	35.1	£5.4	85.4	85.4	85.4	85.4
e indel		77.5	87.8	84.7	87.	87.0	89.3	92.0	93.1	24.6	94.5	95.0	95.4	95.4	95.4	95.4
	-			-				_		-						
F 10001	64.4	77.0	30.0	54 . 7	87.	87.0	89.3	92.0	93.1	24.6	74.6	95.0	95.4	95.4	95.4	95.4
	64.4	71.0	57.2	R4 . 7	h7.3	ن • ت	87.3	92.0	93.1	24.6	34.6	75 · 0	95.4	95.4	95.4	95.4
E 8501	64.4	77.3	90.8	84.7	87.)	97.0	89.3	92.0	93.1	94.6	94.6	95.0	95.4	95.4	95.4	95.4
	64.4	77.4	81.6	85.8	88.1	88.1	90.4	93.1	94.1	95.8	95.8	96 • 2	96.6	96.6	96.6	96.6
	64.4	77.4	81.6	83.0	8 P . 1	P8 • 1	90.4	93.1	94.3	95.8	95.5	96.2	95.6	96.6	96.6	96.6
						•••		, , , ,		- • •					, , , ,	
o rual	64.4	77.4	9.2.40	36.2	89.5	98.5	90.9	93.5	94.6	96.2	95.7	76.6	96.9	96.9	96.9	96.9
	64.4	77.4	87.0	96.2	89.5	*e.5	90.8	93.5	94.6	96.2	35.€	96.9	97.3	97.3	97.3	97.3
	64.4	77.4	87.0	96.2	89.9	98.9	91.2	91.9	95.2	76.6	76.7	97.3	97.7	97.7	97.7	97.7
	64.4	77.4	82.9	86.2	89.9	88.9	91.2	93.9	95.3	26.6	44.3	97.3	98 . 1	98.1	95.1	98.1
	54.4	77.4	82.0	36.2	A A . ,	85.9	91.2	93.9	95.7	96.6	96.9	27.3	98.1	98.5	99.5	98.9
						,									.,	
ν ε 31	54.4	77.4	a	36.2	H4. 7	38∙ 9	91.2	93.9	95.0	96.6	96.7	97.3	98.1	93.5	98.5	100.0
•						-	_									

GLUBAL CLIMATOLOGY RRANCH USAFETAC AIR "EATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM FOURLY OBSERVATIONS

STATION NUMBER: 201130 STATION NAME: MUHMANSK USSR

PERIOD OF RECORD: 78-87
MONTH: FEE HOURS(LST): 0300-0500

												m train					
		• • • • •	• • • • • •	• • • • • • •	• • • • • •	• • • • • • •							• • • • • • •	• • • • • • •	• • • • • •	• • • • • • •	• • • • • • • • • •
	IL 11/6									HUNDR EDS							
	IN I		GE	G E	GF	SE	65	GÉ	G.	GE	GE	G E	G F	GE	GE S	GE 4	GE .
1 .	EET 1		9 5	4.7	60	43	4 0	32	2 4	2.0	16	1.7	10	8	_		Ü
	• • • • • • •	• • • • • •	• • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	•••••	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • •	• • • • • • •	• • • • • • •	• • • • • • •		• • • • • • •	• • • • • • • • • •
	0511								77.0	40.7	*0 .	39.6	70 4	70 (39.0	70.0	
14 (1	CEIL	26.4	54.0	32 + 5	34 • 7	35.7	36.1	36 . 8	37.9	38.3	38 • 6	30	38.6	38 • 6	37.0	30.0	39+G
_			• • •									41.7	41.9	41.9	42.2	4.5.3	42.2
	200001		32.5	35.7	37,4	33.3	79.4	43 • 1	41.2	41.5	41.9					42.2	
	18707		12.5	35.7	37.7	39.2	39.4	40.1	41.2	41.5	41.9	4:.9	41.9	41.9	42.2	42.2	42.2
	16000]		32.5	35.7	37.9	39.	79.4	47-1	41.2	41.5	41.9	41.9	41.9	41.9	42.2	42.2	42.2
	140001		32.5	35.7	37.9	39.0	29.4	47.1	41.2	41.5	41.9	41.9	41.4	41.9	42.2	42.2	42.2
GE	120031	28.5	32.5	35.7	37.7	37.3	39.4	40.1	41.2	41.5	41.9	41.7	41.9	41.9	42.2	42.2	42.2
											- · ·			5 to 0			
	inneal		42.6	46.6	49 . 1	50.5	50.9	51.6	53.1	54.2	54.9	54.9	54.9	54.9	55.2	55.2	55.2
5.5	97001		42.6	46.6	49.1	50.5	50.9	51.6	53.1	54.2	54.9	54.9	54.9	54.9	55.2	55.2	55.2
LΕ	30001		42.0	46.6	49.1	50.5	50.9	51.6	53.1	54.2	54.9	54.9	54.9	54.9	55.2	55.2	55.2
0.5			47.6	46.6	49 • 1	57.5	50.9	51.6	53.1	54.2	54.9	54.9	54.9	54.9	55.2	55.2	55•2
ίĒ	uncol	37.5	42.6	46.6	49 • *	53.5	50.5	51.6	53.1	54.2	54.9	24.3	54.9	54.9	55 • 2	55.2	55.2
6.5	2000l	14 7	43.3	47.3	49.0	51.3	51.6	52.3	53.8	54.9	55.6	55.5	55.6	55 • 6	56.0	56.0	56.0
G F	45001		44.0	48.0	50.5	52.0	52.3	53.1	54.5	55.6	56.3	56.3	56.3	56.3	56.7	56.7	56.7
6 E	47631		46.9	50.0	53+4	54.9	55.2	56 an	57.4	58.5	59.2	59.2	59.2	59.2	= 9.6	59.6	59.6
GE										59.6		67.3	50.3	67.3	60.6	67.6	60.6
			48.3	52.0 52.7	54.5	56.3	56.3 57.0	57.0	59.5		60.3 61.0	61.7	61.0		61.4	61.4	61.4
CE	2 0 1	43.1	43.7	32.1	55.2	56.7	51.4	57.8	59.2	60.3	W. T. + C	C1.,	51.0	61.3	01.4	01.4	01.4
ÜE	25001	56.0	64.3	69.	72.2	73.6	75.1	75.8	77.6	78.7	79.4	79.4	79.4	79.4	79.8	79.8	79.8
ů.E			65.0	67.7	73.5	74.7	76.2	76.9	78.7	79.8	80.5	in . 5	83.5	83.5	PO.9	80.9	84.9
ù.F	13 17 1		66.1	70.4	74 . 4	76.2	17.6	78.3	80.1	01.2	91.9	£1.9	91.9	81.9	P 2 . 3	82.3	82.3
6 E	15001		66.8	71.5	75.	75.9	78.3	79.1	80.9	81.9	82.7	32.7	82.7	82.7	83.0	83.0	R 3 . Ú
6.E			72.9	79.1	92.7	65.2	46.6	87.7	89.9	91.3	72.8	9 3 . 3	93.1	93.1	93.5	93.5	93.5
· · ·						77.2	70.0	0						,,,,			
رو	17001	61.4	72.9	79.1	62.7	85.2	36.6	87.7	89.9	91.3	92.8	97.8	93.1	93.1	93.5	93.5	93.5
6.E	0.1	61.7	74.4	37.5	34 . 1	86.5	88.1	87.2	91.3	92.9	94.2	94.2	94.6	94.6	94.9	94.9	94.9
υF	أدرع	€1.7	74.4	87.5	94	85.6	86.1	89.2	91.3	92.8	94.2	94.2	94.6	94.6	24.9	94.9	94.9
G.F		€1.7	75.1	81.2	84.0	87.4	88.8	87.9	92.1	93.5	74.9	74.9	95.3	95.3	95.7	95.7	95.7
9 E		61.7	75.1	81.2	84 . 3	87.7	89.2	99.3	92.4	93.9	95.3	98.3	25.7	95 • 7	96.0	96.0	96.0
							• • • •										
G-F.	5.11	61.7	75.1	81.2	84 · H	87.1	69.2	95.3	92.4	93.9	95.3	95.3	95.7	95.7	96.0	96.0	96 • G
6 F	4.,.4	61.7	75.1	81.5	85.2	38.4	29.9	91.0	93.1	94.6	96.0	91.03	76.4	96.4	96.8	96.8	96.8
G F	7:31	61.7	75.1	8: • 6	85.2	38.8	96.3	91.3	93.5	94.7	96.4	96.4	96.8	96.5	97.1	97.1	97.1
ul.	2201	61.7	75.1	31.6	85.2	٤٩.8	96.3	91.3	93.5	94.9	76.4	96.4	96.8	98.2	98.9	98.9	98.9
4,5	1501	61.7	75.1	81.6	85.2	89.8	90.3	91.3	93.5	94.9	76.4	41.4	36.9	98.2	98.9	99.3	99.6
	•																
6 E	54	61.7	75	81.6	25.2	88.6	7C • 3	91.3	93.5	94.9	96.4	91.4	96.€	98.2	98.9	99.3	100.0

GLOBAL CLIMATOLOGY BRANCH LSAFETAC AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CFILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

511	110N N	UMBC₽:	221132	STATI	ON NAME	: MURM	ANSK US	SR				PEPIOD	OF REC		-87 (LST): :	0609-08	23
		• • • • •	• • • • • • •		• • • • • •	• • • • • • •		VISIBIL					• • • • • • •	• • • • • •	• • • • • • •	• • • • • •	• • • • • • • • •
1		GT.	GE	GE	GE	GE	65	GE	GΕ	GE	GE	St	υŧ	GE	GE	GE	GE
r f	•	105	9;:	BU	69	4 8	+ C	32	3.4	2.2	16	1.2	10	8	5	4	0
	• • • • • •	• • • • • •	• • • • • • •	• • • • • •		• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • • •	• • • • • • •		• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • •	•••••
'¥0	CEIL 1	21.7	32.6	33.3	36 • 6	38.1	38.1	38.8	39.9	40.3	40.7	47.7	40.7	49.7	40.7	40.7	40.7
u t	200 234	37.3	36.€	37.0	43.7	42.1	42.1	42.9	44.0	44.3	45.1	45.1	45.1	45.1	45.1	45.1	45.1
LΕ	larur!	33. 3	36.6	37.3	43.7	42.1	42.1	42.9	44.0	44.3	45.1	45.1	45.1	45.1	45.1	45.1	45.1
€.E	167061	33.3	36.6	37.0	40.7	42.1	42.1	42.9	44.0	44.3	45.1	45.1	45 • 1	45.1	45.1	45.1	45.1
լ F	147001	5 ? • 3	36.6	37.3	40.7	42.1	42.1	42.9	44.D	44.3	45.1	45.1	45.1	45.1	45.1	45.1	45.1
6 F	12 001	52.3	36.6	37.0	40.7	42.1	42.1	42.9	44.0	44.3	45.1	45.1	45 - 1	45.1	45.1	45.1	45.1
is E	10000	58.B	43.6	44.3	48.3	59.5	5û . 5	51.6	53.1	53.8	54.6	54.6	54.6	54.6	54.6	54.6	54.6
G.F	97071	30.3	43.€	44.3	48.0	50.5	50.5	51.6	53.1	53.3	54.6	54.6	54.6	54.6	54.6	54.6	54.6
σĒ	80001	39.8	45.6	44.3	48.1	57.5	50.5	51.6	53.1	53.8	54.6	54.5	54.6	54.6	54.6	54.6	54.6
g F	70001	38.8	43.6	44.3	48.3	50.5	56.5	51.6	53.1	23.9	54.6	54.5	54.6	54.6	54.6	54.6	54.6
U.	0 131	34.8	43.€	44.3	48.3	50.5	50.5	51.6	53.1	53.8	54.6	54.5	54.6	54.6	54.6	54.6	54.6
c.f	57011	30.6	44.3.	45.1	48.7	51.3	51.3	52.4	53.8	54.6	55.3	55.7	55.3	55.3	55.3	55.3	55.3
á C	44631	37.9	44.7	45.4	49.1	51.6	51.6	52.7	54.2	54.9	55.7	55.7	55.7	55.7	55.7	55.7	55.7
üΕ	40001	42.5	47.6	48.4	52.0	54.6	54.6	55.7	57.1	57.9	58.6	5 2 . 5	58.6	59.6	58.6	58.6	56.6
GE	35071	42.0	48.0	48.7	52.4	54.9	54.9	56.0	57.5	58.2	59.0	59.1	59.0	59.0	59.0	59.0	59.0
6.	30001	44.0	49.1	49.9	53.5	56.0	56.Q	57.1	58.6	59.3	60.1	67.1	60.1	60.1	60.1	60.1	60.1
υE	25001	54.2	61.9	U4.1	68.1	71.4	71.8	73.6	75.5	76.9	77.7	77.7	77.7	77.7	77.7	17.7	77.7
ų F	anda i		63.3	65.2	69.2	72.5	72.9	74.7	76.6	78.3	78.8	70.2	79.8	78.8	78.8	79.8	78.8
G.E	1+001		63.4	55.6	69.6	72.7	73.3	75.1	76.9	79.4	79.1	79.1	79.1	79.1	79.1	79.1	79.1
SE		56.0	63.7	65.3	70.3	73.6	74.0	75.8	77.7	79.1	79.9	79.4	79.9	79.9	79.9	79.9	79.9
ьF	12001	59.7	64.6	12.5	78.8	65.3	25.7	88.6	90. B	92.7	94.5	94.5	34.5	94.5	94.5	94.5	94.5
(, F	10001	LC. 1	73.3	73.3	79.5	85.7	96.4	89.4	91.6	73.4	95.2	98.5	95.2	95 • 2	95.2	95.2	95.2
ά£	40.1	60.1	73.3	73.3	79.5	65.7	F6.4	89.4	91.6	93.4	95.2	95.7	95.2	95.2	95.2	95.2	95.2
υF		67.1	70.3	73.3	79.5	86.1	86.8	89.7	91.7	93.8	95.6	95.6	95.6	95.6	95.6	95.6	95.6
6 E	7501	60.4	77.7	13.6	79.9	86.9	5.7.5	90.5	92.7	94.5	96 . 3	95.3	96.3	96.3	96.3	96.3	96.3
65	€001	6 7, 4	73.7	13.6	90 + 2	67.2	37.9	90.8	93.0	94.9	76.7	94.7	96.7	96.7	96.7	96.7	96.7
L.E	5061	60.4	73.7	73.6	AG.2	F7.5	85.3	91.2	93.4	95.6	97.4	97.4	97.4	97.4	07.4	97.4	97.4
G E		67.4	77.7	7 5 . 6	90.2	87.5	-8 3	91.2	93.8	16.0	97.8	97.8	97.6	97.8	07.8	97.8	97.8
υ£.		67.4	73.7	73.6	80.2	67.5	9.3	91.2	93.8	96.0	97.8	97.8	97.8	97.8	97.8	97.8	97.8
GE		63.4	73.7	73.6	34.2	87.5	88.3	91.2	93. A	96.5	97.8	97.9	97.8	98.2	99.3	99.3	99.3
CE		613.4	70.7	13.6	83.2	67.5	88.3	91.2	93.6	96.3	97.8	97.9	97.8	98.2	99.3	99.6	99.6
ι, E	^1	63.4	70.7	73.6	83.2	87.5	88.3	91.2	93.8	96.9	97.8	97.9	97.8	98.2	99.3	99.6	100.0

CLOBAL CLIMATOLOGY BRANCH USAFETAC AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURPENCE OF CFILING VERSUS VISIBILITY FROM FOURLY OBSERVATIONS

PERIND OF RECOPD: 78-87

STATION NUMBER: 221133 STATION NAME: MURMANSK USSR

MONTH: FEE HOURSILSTJ: 0900-1100 CEILING Gf GE 4 GE GE 24 20 GE GE 14 G E 32 GE GE 12 FLET | 160 16 ¥ D 8 5 30 87 19 0 NO CETE 1 20.5 34.9 34.8 34.8 74.8 34.8 23.0 35.3 27.8 37.3 12.2 33.7 34.4 34.4 34.6 27.8 34.4 39.8 UE 200011 23.1 37.7 39.5 38.8 38.5 38.9 38 • 8 38 • 8 26.4 31.1 35.9 38.5 3 R . B 38.8 6E 187001 23.1 6E 167001 23.1 6E 147001 23.1 27.8 27.8 27.8 38.5 30.9 38.8 38.9 38.8 38.8 26.4 34.4 35.9 37.7 39.5 38.8 36.8 31.1 26.4 31 - 1 34.4 35.9 37.7 38.5 38.5 38.8 39.9 38.8 38.8 30.4 38 . B 38.8 38.8 38.5 34.4 35.9 38.8 38.8 31.1 38.5 30.5 39.8 38.8 38 • 8 65 100001 36.3 49.3 53.8 54.9 55.3 55.7 55.7 55.7 55.7 55.7 55.7 55.7 55.7 9:301 36.3 6:001 36.3 40.7 92.1 92.1 46.2 49.5 47.8 54.9 55.7 55.7 55.7 ĠΕ 51.6 53.8 55.3 55.7 53.8 54.9 55.3 55.7 55.7 55.7 55.7 51.6 GΕ 42.1 53.8 77431 36.3 40.7 46.2 47.2 .1.6 54. 9 55.3 45.7 55.7 55.7 55.7 55.7 55.7 55.7 54.9 60011 30.3 49.5 55.3 55.7 43.7 51.6 46.2 6F 5 1001 36.6 41.0 42.5 52.0 52.4 55.3 55.3 55.7 r6.0 56.7 56.0 56.0 56.0 56.0 56.3 54 . 2 46.5 53.2 42.9 56.4 υĒ 46.9 57.5 54.6 55.7 56.3 59.0 56.4 55.4 56.4 59.3 56.4 44.C 49.8 53.5 59.6 59.3 59.3 59.3 5. F 40001 38.8 59.1 35001 39.6 35001 40.7 50.5 59.7 62.1 60.1 46.2 54.2 56.0 58.2 63.1 60.1 60.1 60.1 (, t 47.3 57.1 6].4 00.9 61.2 01.7 61.2 61.2 58 25001 50.5 57.5 39.5 €5.2 79.0 73.3 76.6 77.7 78.4 78 . 6 70.8 78.8 79.9 70.9 78.8 7 H . B 67.6 87.6 87.6 95.6 27301 51.6 80.6 80.6 υE 59.3 5 1.a 67.3 71.8 75.1 78.4 79.5 83.2 P0.6 80.6 80.6 80.6 68 1907 51.6 59.3 57.0 67. 71.6 75.1 78.4 79.5 00.2 PU.6 30.6 80.6 80.6 80.6 80.6 67.4 8C.2 89.7 82.4 95.6 15 . 21 53.3 67.3 68+5 73.3 76.9 81.3 82.1 42.4 92.4 82.4 82.4 82.4 12071 56.9 96.1 92.7 6.5 10001 57.1 97.2 97.8 93.8 95.6 96.7 96.7 9011 57.1 8031 57.1 87.2 87.5 93.8 96.7 95.7 97.1 96.7 96.7 97.1 96.7 97.1 96.7 96.7 '. F 68.1 67.5 76.2 81.3 97.9 95.6 91.2 96.C 57.5 υ£ 69.1 76.2 81.3 7001 57.5 6031 57.5 98.2 = 7.9 98.2 98.3 98.2 98.2 5 E 68.5 91.9 77.4 70.0 76.6 88.3 95.2 98.5 99.5 98.5 98.5 98.5 98.5 98.5 15 5 5001 57.5 68.9 77.3 82.4 36.6 92.3 98.2 90.1 99.6 76.3 96.0 99.3 99.6 99.6 99.6 99.6 4 17 | 57.5 GE 77.3 92.3 98.2 99.3 90.3 79.6 99.6 99.6 99.6 63.9 76.9 82.4 98.6 96.0 99.6 29.3 95.4 99.6 L F 65.9 77.3 76.7 82.4 36.6 92.3 96.0 98.2 99.6 99.6 99.6 99.6 65.9 99.3 99.3 99.6 99.6 9.6 99.6 99.6 77.3 92.3 92.3 98.2 76 . 7 08.6 96.0 99.5 99.2 100.0 GE 1131 57.5 68.9 7.7.3 100.0 SΕ rl 57.r 69.9 79.3 76.3 £ 2 . 4 88.6 92.3 96.0 98.2 79.3 . 99.3 99.6 99.6 79.6 160.0 100.0

SLOBAL CLIMATOLOGY BRANCH USAFETAC AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM FOURLY OBSERVATIONS

ATION NU											40616	-	HOURS	(LST):	1200-14	00
IL ING	••••	• • • • • •	• • • • • • •	• • • • • • •	• • • • • •		VISIBILI					• • • • • • •	• • • • • • •	• • • • • •	• • • • • • •	•••••
IN I	61	GŁ	GE	GE	GE	65	GE	GE	GE	GE	SŁ	G F	GΕ	GE	G€	GE
EET	160	9.3	33	65	4.9	46	32	24	23	16	12	13	8		4	0
CEIL		25.1	26.2	29.7	33.3	35.5	36.6	36.9	38.3	38.6	3F.0	38.4	34.4	38.4	38.4	38.4
200001		31.5	31.0	36.9	40.1	42.7	44.1	44.4	45.9	45.9	46.2	46.2	45.2	46.2	46.2	46.2
187031		31.9	33.0	36.9	40.1	42.7	44.1	44.4	45.9	45.9	45.2	46.2	46.2	46.2	46.2	46.2
167331		31.9	33.0	36 • 9	47.1	42.7	44.1	44.4	45.9	45.9	46.2	46.2	46.2	46.2	46.2	46.2
140001		31.9	3 ? • 7	35.9	47.1	42.7	44.1	44.4	45.9	45.9	45.2	46.2	46.2	46.2	46.2	46.2
120001		11.9	33.2	36.9	43.1	42.7	44.1	44.4	45.9	45.9	46.2	46.2	46.2	40.2	46.2	46.2
100001	70.8	49.4	49.5	53.3	57.7	51.3	63.4	64.2	65.9	65.9	65.1	66.7	66.7	66.7	66.7	66.7
10619	30.0	43.4	49.5	55.8	57.1	61.3	63.4	64.2	65.9	65.9	66.3	56.7	66.7	66.7	66.7	66.
8 771	39.4	48.4	47.5	53.3	57.7	61.3	63.4	54.2	65.9	65.9	66.3	66 • 7	66.7	66.7	66.7	66.
70001	30.8	48.4	49.5	53.8	57.7	61.3	63.4	64.2	05.9	65.5	64.3	66.7	66.7	66.7	66.7	66.
67691	39.4	48.4	49.5	53.8	57.7	61.3	63.4	64.2	65.9	65.9	65.3	66.7	66.7	66 • 7	66.7	66.
57001		46.7	49.8	54.1	58.1	61.6	63.8	64.5	66.3	66.3	55.7	67.3	67.3	67.0	67.0	67,
45001		4.9.7	40.5	54 . 1	59.1	61.6	63.8	64.5	66.3	66.3	64.7	67.0	67.0	67.0	67.0	67.
40001		40.5	57.9	55 • 2	59.1	62.7	64.9	05.6	67.4	67.4	67.7	68.1	68 - 1	68.1	68.1	66.
35.001		50.2	51.3	55.6	52.5	63.1	65.2	65.9	07.7	67.7	6°•1	68.5	69.5	68.5	68.5	68.
Jman I	41.6	50.2	51.3	55 • 6	59.5	63.1	65.2	65.9	67.7	67.7	6 a • 1	68.5	69.5	68.5	68.5	68.
25001	51.6	62.3	63.1	66.8	73.5	78.1	80.3	82.4	84.9	94.5	h5.7	86.3	86.4	96.4	86.7	86.
20001	51.6	52.4	6 5 . 4	69.2	74.2	78.5	60.6	92.8	85.3	95.3	94.7	96.4	86.7	86.7	87.1	e 7.
15001	51.6	62.4	63.4	64.2	74.2	78.5	83.6	82.8	65.3	A5.3	86.7	36.4	86.7	86.7	87.1	87.
15601	52.0	62.7	63.4	69.5	74.0	78.9	81.0	83·2	05.7	A5.7	06.4	86.7	87.1	A7.1	87.5	87.
17661	55.9	56.:	50.5	75 - 3	80.3	95.3	88.2	90.3	93.5	94.6	, . ,	96.1	97.1	97.1	97.5	97.
1:001		69.2	70.6	76.3	81.4	96.4	89.2	91.4	94.6	95.7	de*a	97.1	98 • 2	98.2	98.6	98.
1000		59.2	70.6	76 . 3	81.4	86.4	89.2	91.4	94.6	95.7	94.0	97.1	98 • 2	98.2	98.6	98.
FUGI		60.2	76.6	76 • 3	8:.4	46.4	89.2	91.4	94.6	95.7	96.8	97.1	98.2	98.2	98.6	98.
7		69.2	71.0	76 • 7	61.7	87.1	90.0	92.1	95.3	c6.4	97.5	97.8	98.9	98.9	99.3	99.
€uJ∤	56.5	6c.2	71.5	7€ • 7	81.7	27.1	90.0	92.1	95.3	96.4	97.5	47.8	98.9	98.9	99.3	99.
1001		69.2	7:•0	76.7	81.7	87.1	90.0	92.1	95.3	96.4	97.5	97.8	98.9	96.9	99.3	99.
4.021		69.2	71.0	76 • 7	81.7	87.1	93.0	92.5	95.7	96.8	97.P	98.2	99.3	99.3	99.6	99.
7001 2001		69.2 69.2	71.0	76 • 7	81.7	27. 1	90.0	92.8	96.1	97.1	99.2	98.6 98.6	99.6 99.6	99.6	100.0	100.0
10		69.2	71.0	76.7 76.7	61.7 81.7	£7•1 £7•1	90.0 90.0	92.8 92.8	96.1 96.1	97.1	99.7 99.7	98.6	99.6	99.6	100.0	100.0
• • • • •	J.5	0712	.1.5	10.1	01.1	C 1 . A	70.0	72.0	,0 • 1	-1.1	77 • '	40.0	. 77.0	- 7 - 0	100.0	10010
1.1	56.3	69.	71.6	76.7	61.7	97.1	90.0	92.8	96.1	27.1	98.7	94.6	99.6	99.6	160.0	

CLOBAL CLIMATOLOGY BRANCHUSAFETAC AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CFILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

STATION NUMBER:										001939 HT#0M	FE i	HOURS	(LSTI:	1500-17	
CEILING	• • • • • •	• • • • • • •		• • • • • •		VISTBILI						• • • • • •	• • • • • • •	• • • • • • •	
IN 61	C.F.	6.6	CL	58	65	58	6E	GE	GE	GE	GE	GE	GE	G£	GE
FEET 1 160	9 .	FΩ	6 L	4.8	4 Ú	32	24	2.7	16	1.7	10	9	5	4	a
• • • • • • • • • • • • • • • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •		• • • • • •	• • • • • • •		• • • • • • •	• • • • • •	• • • • • • •	• • • • • • •	• • • • • •	• • • • • • •	• • • • • •	• • • • • • • • • • •
NO CEIL 25.7	29.7	30.4	31.9	34.0	?6 • 3	37.7	38.5	39.6	19.9	9,02	19.9	39.9	19.9	39.9	39.9
GE 200001 29.7	34.8	35.7	37.4	40.3	41.8	43.2	44.6	45.1	45.4	45.4	45.4	45.4	45.4	45.4	45.4
GE 187001 29.7	34.8	35.9	37.4	40.3	41.8	43.2	44.0	45.1	45.4	45.4	45.4	45.4	45.4	45.4	45.4
GE 160001 29.7	34.8	35.9	37 -4	49.3	41.8	43.2	44.0	45.1	45.4	45.4	45.4	45.4	45.4	45.4	45.4
GE 14000 29.7	34.8	35.09	37.4	47.3	41.8	43.2	44.0	45.1	45.4	45.4	45.4	45.4	45.4	45.4	45.4
GE 12000 29.7	34.8	35.9	37.4	40.3	41.6	43.2	44.2	45.1	45.4	45.4	45.4	45.4	45.4	45.4	45.4
GE 100001 46.2	52.4	53.8	56 . 6	50.6	61.2	63.0	64.1	65.6	65.9	65.0	65.9	65.9	65.9	65.9	65.9
DE 90001 46.2	52.4	53.8	56 . C	59.0	61.2	63.0	64.1	65.6	65.9	65.9	65.9	65.9	65.9	65.9	65.9
GE 80001 46.2	52.4	57.6	56.0	59.0	61.2	63.7	64.1	65.6	65.9	65.3	65.9	65.9	65.9	65.9	65.9
GE 70001 46.2	52.4	53.8	56.0	59.0	61.2	63.3	64.1	65.6	65.9	65.0	65.9	65.7	65.9	65.9	65.9
UE 60001 46.2	52.4	53.8	56.3	59.û	61.2	63.0	64.1	\$5.6	65.9	65.0	65.9	65.9	65.9	65.9	65.9
GE 57401 47.3	53.5	54.0	57.i	60.1	62.3	64 - 1	65.2	66.7	67.G	67.0	67.0	67.0	67.0	67.C	67.0
GE 45a61 47.3	53.5	54.9	57.1	63.1	62.3	64.1	65.2	66.7	67.0	67.0	67.0	67.0	67.0	67.0	€7.0
UE 40001 49.5	55.7	57.1	59.3	62.3	64.5	66.3	67.4	68.9	69.2	69.2	69.2	69.2	69.2	69.2	69.2
GE 35001 49.5	55.7	57.1	59.3	62.3	64.5	66.3	67.4	68.9	69.2	69.2	69.2	69.2	69.2	69.2	69.2
6E 3"001 49.5	55.7	57.1	59.3	62.3	64.5	66.3	67.4	68.9	69.2	69.7	19.2	69.2	67.2	69.2	69.2
GE 25 J31 60.1	68.5	70.7	73.5	76.6	79.5	82.4	84.2	85.7	96.4	86.4	86.4	86.9	86.8	86.8	A6.8
GE 20G01 60.8	69.2	71.4	74.0	77.3	86.2	83.2	85.0	86.4	87.2	67.2	07.2	87.5	P7.5	87.5	e 7 • 5
CE 1960 60.8	69.6	71.8	74 . 4	77.7	8C. 6	83.5	85.3	86.8	97.5	87.5	37.5	87.9	87.9	87.9	87.9
0F 15381 67.6	71.4	73.6	76.2	79.5	82.4	85.3	87.2	88.6	A7.4	87.4	39.4	39.7	89.7	89.7	89.7
6E 17001 64.8	74.0	17.3	95.1	85.7	98.6	92.3	94.9	97.4	CP.9	90.0	98.9	99.6	99.6	99.6	99.6
GE 10001 64.8	74.0	77.3	92.1	85.7	38.6	92.3	94.9	97.4	98.9	94.9	9.80	99.6	99.6	99.6	99.6
GE 9001 64.8	74.0	77.3	82.1	85.1	86.6	92.3	94.9	97.4	98.9	92.0	9.80	99.6	99.6	99.6	99.6
UE PCT 64.8	74.0	17.3	82.1	85.7	86.6	92.3	94.9	97.4	98.9	44.9	23.9	99.6	99.6	99.6	99.6
6E 708] 64.P	74.0	77.3	82 - 1	85.7	98.6	92.3	94.9	97.4	98.9	99.9	98.9	99.6	99.6	99.6	99.6
GE 6.701 64.8	74.U	77.3	62.1	35.7	86.6	92 • 3	94.9	47.4	98.9	94.0	98.9	99.6	99.6	99.6	99.6
6E 5091 64.8	74.0	77.7	82.4	86.1	69. Ü	92.7	95.2	97.8	99.3	97.3	99.3	100.3	173.0	100.0	100.0
UE 4001 64.8	74.6	77.7	82.4	86.1	89. U	92.7	95.2	97.P	99.3	99.3	99.3	100.0	100.0	100.0	100.0
OF 3001 64.5	74.3	77.7	92.4	1.68	85.6	92.7	95.2	97.R	99.3	42.3	20.3	100.0	100.0	100.0	100.0
GF 700↓ 64•8	74.3	77.7	82.4	66.1	ن ، ۹9	9.7 . 7	95.2	97.8	99.3	94.1	99.3	100.0	100.0	100.0	100.0
0E 1001 64.8	74.5	77.7	82.4	86.1	89.D	92.7	95.2	77.8	99.3	97.3	99.3	100.0	100.0	100.0	100.0
6F 3 64.6	74.6	77.7	82.4	86.1	89. U	92.7	95 • 2	97.P	99.3	97.3	99.5		100.0	100.0	

TOTAL NEMPER OF DESERVATIONS: 273

•

GLODAL CLIMATOLOGY BRANCH USAFETAC AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

PECIOD OF RECORD: 78-87

STATION NUMBER: 221130 STATION NAME: MURMANSK USSR

314710				3,,,,,	VII III IL I	, , , , , , , , ,						MONTH	FEE		(LST):	1800-20	00
CEILI		• • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • •	• • • • • •	utstrti		HUNDREDS	OF MF	 TFRS	• • • • • • •	• • • • • • •	• • • • • •	• • • • • •	• • • • • • • • • • • • • • • • • • • •
IN	Ĭ.	1 ن	GF.	GE	GE	GŁ	GE	GE	GE	GE	GE	6.6	3.0	6.6	30	3.0	GE
FEET	i	160	9;	ā:	60	4 8	40	32	2 4	2.0	16	12	10	Ą	5	4	0
• • • • • •	• • • • •	• • • • •	• • • • • • •	• • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • •		• • • • • • •		• • • • • • •	• • • • • •	• • • • • •	• • • • • • •		• • • • • •	• • • • • •	
NO CLI	LI	22.1	25.5	27.0	28.5	30.0	31.5	32.6	33.7	34.1	34 • 5	34.5	34.5	34.5	34.5	34.5	34.5
6E 201	noni	27.0	31.5	33.0	34.5	36.0	37.5	38.6	39.7	47.1	40.4	47.4	43.4	40.4	43.4	40.4	40.4
5€ 181			31.5	33.0	34.5	36.0	37.5	38.6	39.7	40.1	40.4	47.4	43,4	40.4	40.4	40.4	40.4
6E 16"	"est	27.0	71.5	37.2	34.5	36.0	17.5	38.6	39.7	40.1	40.4	47.4	40.4	40.4	43.4	40.4	40.4
UE 147	100	27.2	31.5	3 * . :	34 . 5	35 • U	37.5	38.6	39.7	40.1	40.4	4 - 4	40.4	43.4	40.4	40.4	46,4
GE 120	1000	27.0	31.5	37.0	34 • 5	36.3	37.5	38 .6	39.7	43.1	40.4	47.4	40.4	40.4	40.4	43.4	40.4
GF 1UC	Suci	42.7	48.3	50.9	52.8	54.7	56.9	58.4	59.9	60.3	60.7	67.7	61.3	61.3	61.0	61.0	61.0
6 E 90	1001	42.7	48.3	50.9	52.0	54.7	56.9	58.4	59.9	60.3	6C . 7	67.7	61.0	61.3	61.0	61.0	61.0
UE EC	1001	42.7	48.3	50.9	52.8	54.7	56.9	58.4	59.9	60.3	50.7	60.7	61.U	61.0	61.3	61.0	61.3
UE 70	lool	42.7	48.3	57.9	52 · o	54.7	56.9	59.4	59.9	63.3	60.7	67	61.0	61.0	61.0	61.0	61.0
0E 60	וטטו	42.7	48.3	50.7	52.8	54.7	56.9	58.4	59.9	63.3	60.7	60.7	61.3	61.3	61.3	61.0	61.0
OF 57	1001	43.4	49.1	51.7	53.6	55.4	57.7	59.2	60.7	61.0	61.4	61.4	61.8	61.8	61.8	61.8	61.8
υΕ 4°	-01	44.2	49.8	52.4	54.3	56.2	56.8	60.3	61.8	02.2	62.5	67.5	62.9	62.9	62.9	62.9	62.9
CE 45	1001	47.2	5.3.2	55.F	57.7	59.6	62.2	63.7	65.2	65.5	65.9	85.0	66.3	66.3	66.3	66.3	66.3
UE 35	5001	47.2	53.2	55 • à	57 • 7	54.6	62.2	63.7	65.2	65.5	65.5	66.0	66.3	66.3	66.3	66.3	66.3
OE 3	.ncl	47.6	53.€	56.2	58 - 1	50.4	62.5	64.D	65.5	65.9	66.3	66.3	66.7	66.7	66.7	66.7	66.7
		9.86	67.0	70.1	71.9	74.2	77.5	79.0	80.5	82.0	82.4	67.1	A 3.5	83.5	P3.5	83.5	e 3.5
1.5 3.1	CCL	59.2	67.4	77.4	72 . 3	74.5	77.9	79.4	80.9	02.4	P2.8	57.5	F3.9	83.9	P3.9	83.9	83.9
		59.2	67.4	70.4	72.3	74.5	77.9	79.4	80.9	82.R	83,1	07.9	84.3	84.3	94.3	84.3	84.3
		10,9	68.5	71.5	73.4	75.7	75. L	80.5	82.0	83.9	84.3	85.7	P5.4	85.4	P5.4	85.4	85.4
F-E 11	1001	63.7	74.2	77.5	5C.9	83.5	88.0	90.3	92.5	95.1	36.3	97.0	97.4	98.5	98.5	98.5	98.5
UE 15	5E J	63.7	74.2	77.5	81.9	83.5	98.€	90.3	92.5	95.1	96.3	97.0	97.4	98.5	96.5	98.5	98.5
UE S	9001	t 2 . 7	74.3	77.5	B(63.5	88. C	90.3	92.5	75.1	96.3	97.0	97.4	98.5	98.5	98.5	98.5
UE 5	465t	63.7	74.2	77.5	8∪•9	F3.5	88 • G	90.3	92.5	95.1	96.3	97.0	91.4	98.5	98.5	98.5	98.5
GF 7	7001	€ 3.7	74.	77.5	80.5	£7.9	98.4	90.6	92.9	95.5	96.€	97.4	97.8	98.9	98.9	98.9	98.9
U.E. E	6 J.C. [€3.7	74.5	77.9	81.3	£4.3	8.88	91.5	93.3	95.9	97.0	97.8	?∺.1	79.3	99.3	99.3	99.3
6E 5	scot	63.7	74.5	77.7	81.5	84.3	88.8	91.0	93.3	45.9	97.0	97.8	98.1	99.3	99.3	99.3	99.3
GE 4	4661	63.7	74.5	77.9	81.3	E4.3	8.83	91.3	93.3	95.9	97.C	47.9	98.1	99.3	99.3	99.3	99.3
GF 3	3* j	67.7	74.5	77.9	81.3	84.3	8.83	91.0	93.3	95.9	97.0	97.9	98.1	99.3	99.3	99.3	99.3
CE C	1300	€3.7	74.5	77.5	61.3	84.3	9.80	91.0	93.6	96.3	97.4	96.1	98.5	99.6	99.6	99.6	99.6
GE :	::al	63.7	74.5	77.9	81.3	64.3	8.89	91.0	93.6	96.3	97.4	9 P . 1	98.5	99.6	79.6	99.6	99.6
i, E	0.1	67.7	74.5	77.9	81.3	84.3	88.8	91.€	93.6	96.3	97.4	98.1	98.5	99.6	99.6	99.6	100.0
• • • • • •	• • • • •	• • • • •	• • • • • •	• • • • • •	• • • • • • •	• • • • • •	•••••	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • •	• • • • • • •	• • • • • • •	• • • • • • •		• • • • • •	•••••

GLGEAL CLIMATCEOGY ERANCH USAFETAC AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CFILING VERSUS VISIBILITY FROM FOURLY OBSERVATIONS

FELT 10C 9U PU 100 132 24 277 16 17 10 8 5 4 FROM COLL 1715 33.3 37.7 25.5 37.9 28.0 38.8 39.5 39.9 40.2 47.4 40.9 41.3 41.3 41.3 41.3 41.5 FROM COLL 1716 37.7 38.0 39.9 41.3 42.4 47.1 43.8 44.2 44.6 44.9 45.3 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 47.1 47.1 47.8 44.2 44.6 44.9 45.3 45.7 4														: FFF		(LSTI:		
FEEL 1 100 90									VISIBIL	ITY IN	-UNDREDS	OF ME	TERS					
10 CLIL 27.5 33.3 3'.7 25.5 37.0 78.0 38.8 39.5 39.9 40.2 40.6 40.9 41.3																		GF
D CLIL 27.5 33.3 31.7 25.5 37.2 78.0 38.8 39.5 39.9 40.2 47.6 40.9 41.3 41.3 41.3 41.3 41.3 41.5 41.6 41.2 41.2				-				-										
E 16 02 20.6 37.7 38.0 39.0 41.3 42.4 43.1 43.8 44.2 44.6 44.7 45.7				33.3	3 7 . 7					39. 5	39.9	40.2	40.5	40.9	41.3	41.3	41.3	41.3
# 16 1 2 1 2 1 3 2 3 3 3 2 4 3 3 4 2 4 4 2 4 4 2 4 4	E 2t	icual.	3C.P	37.7	35.0	39.9	41.3	42.4	47.1	43.8	44.2	44.6	44.9	45.3	45.7	45.7	45.7	45.7
F 14COC 3C.R	E 18	31031	36.8	37.7	3 A	39.9	41.5	42.4	43.1	43.8	44.2	44.6	44.7	45.3	45.7	45.7	45.7	45.7
Tanuary 30.8 37.7 38.0 39.9 41.3 42.4 43.1 43.8 44.2 44.6 44.0 45.3 45.7	F. 16	STOCK.	30.8	27.7	30	39.9	41.3	42.4	43.1	43.8	44.2	44.6	44.9	45. ?	45.7	45.7	45.7	45.7
C 1000C 41.7 50.4 51.1 53.6 55.8 57.2 58.0 58.7 59.1 59.4 60.1 60.5 60.9				77.7	3 P . ~	29.9	41.3	42.4	43.1	43.8	44.2	44.6	44.7	45.3	45.7	45.7	45.7	45.7
E 9000 41.7 50.4 51.1 52.6 55.8 57.2 58.0 58.7 59.1 59.4 60.1 60.5 60.9 60.9 60.9 60.9 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	F 12	on up I	3C.P	37.7	38.0	35.9	41.3	42.4	43.1	43.8	44.2	44.6	44.0	45.3	45.7	45.7	45.7	45.7
E 6FCO 41.7 50.4 51.1 53.6 55.8 57.2 58.0 58.7 59.1 59.4 60.1 60.5 60.9	C 1	.0661	4:.7	50.4	51.1	53.6	55.8	57.2	58.0	58.7	59.1	59.4	67.1	60.5	60.9	63.9	60.9	66.9
70001 41.7 50.4 51.1 53.6 55.8 57.2 58.0 58.7 59.1 59.4 59.8 60.1 60.5 60.9 61.2 61.2 61.2 6 ECCO1 42.0 50.7 51.4 51.1 54.5 56.2 57.6 58.3 59.1 59.4 59.8 60.1 60.9 61.2 61.2 61.2 6 ESCO1 42.4 51.1 51.5 54.5 56.5 56.0 58.7 58.7 59.4 59.8 60.1 60.9 61.2 61.6 61.6 61.6 61.6 61.6 61.6 61.6				50.4	51.1	53.6	55.8	57.2	58.6	58 • 7	59.1	59.4		60.5	60.9	60.9	60.9	60.9
E CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC																		60.9
E SCUDI 42.4 51.1 51.0 54.3 56.5 58.0 58.7 59.4 60.1 60.5 60.9 61.2 61.6 61.6 61.6 62.3 63.0 63.4 63.8 64.5 64.9 65.2 65.2 65.2 65.2 65.2 65.2 65.2 65.2						-												60.9
450c 42.F 51.6 52.5 55.1 57.2 58.7 59.4 60.1 60.5 60.9 61.6 62.0 62.3 62.3 62.3 62.3 62.3 62.3 62.3 62.3 62.3 62.3 62.3 62.3 62.3 62.3 62.3 63.6 63.6 63.6 63.6 63.6 63.6 63.6 63.6 63.6 63.6 63.6 63.6 63.6 63.6 63.6 63.6 63.6 63.7 65.2 6		10000	42.0	50.7	51.4	54.6	56.2	57.€	58.3	59.1	59.4	59 • €	67.5	60.9	61.2	61.2	61.2	61.
40001 45.3 54.3 55.1 57.6 59.6 61.6 62.3 63.0 63.4 63.8 64.5 64.9 65.2 65.2 65.2 65.2 65.2 65.2 65.2 65.2	•	1001	42.4	51.1	51.5	54.5		58.0	58 • 7	59.4	59.8	60.1	6 ^ • 9	61.2	61.6	61.6	61.6	61.
3500 46.4 55.6 50.5 59.1 61.2 63.0 63.8 64.5 64.9 65.2 65.7 56.3 66.7 66.7 66.7 67 67 67 67 67 67 67 67 67 67 67 67 67		45661	42.6	51.6	52.5	55 • 1	57.2	58.7	59.4	60.1	60.5	60.9	61.6	62.0	62.3	62.3	62.3	62.
7000 46.4	t	10001	45.3	54.3	55.1	57.6	59.8	61.6	62.3	63.0	63.4	63.8	64.5	64.9	65.2	65.2	65.2	65.
2 C C C C S S S S S S S S S S S S S S S		35001	46.4	55.8	56.5	59.1	61.2	63.0	63.8	64.5	64.9		65.7	56.3	66.7	66.7	66.7	66.
2 C C C C C C C C C C C C C C C C C C C	-	30001	46.4	55.8	56.5	59 • 1	61.2	63.0	63.8	64.5	64.9	65.2	€ € • ⊅	66.3	66.7	56.7	66.7	66.
1001 59.1 73.2 73.9 76.8 67.1 81.9 83.0 84.1 84.8 85.9 86.6 87.0 87.3 87.3 67.3 8 1501 59.8 73.6 74.6 77.9 81.2 83.0 84.1 85.1 85.9 87.0 87.7 49.0 68.4 88.4 88.4 8 1200 62.7 78.6 60.1 84.4 88.0 89.9 91.7 93.1 94.6 95.7 96.4 96.7 97.1 97.1 97.1 97.1 9 91.0 62.7 78.6 80.1 84.4 88.0 89.9 91.7 93.1 94.6 95.7 96.4 96.7 97.1 97.1 97.1 97.1 9 90.0 62.7 78.6 80.1 84.4 68.0 69.9 91.7 93.1 94.6 95.7 96.4 96.7 97.1 97.1 97.1 97.1 9 80.0 62.7 78.6 80.1 84.4 68.0 69.9 91.7 93.1 94.6 95.7 96.4 96.7 97.1 97.1 97.1 97.1 9 80.0 62.7 78.6 80.4 84.6 68.4 90.2 92.0 93.5 94.9 96.0 96.7 97.1 97.5 97.5 97.5 97.5 97.5 97.5 97.5 97.5		130.25	55.9	71.0	71.7	74.5	77.5	79.3	80.4	81.5	62.2	R3.3	84.1	24.4	94.8	4.8	84.8	84.
17GG1 59.8 73.9 74.6 77.9 81.2 83.0 84.1 85.1 85.9 87.0 87.7 49.0 68.4 88.4 88.4 88.0 29.9 91.7 93.1 94.6 95.7 96.4 96.7 97.1 97.1 97.1 97.1 97.1 97.1 97.1 97	- 2	ract	59.€	72.1	72.8	75 • 4	78.6	P () . 4	81.5	82.6	83·3	84.4	85.1	95.5	85.9	95.9	85.9	85.
1200 62.7 78.6 80.1 84.4 88.0 89.9 91.7 93.1 94.6 95.7 96.4 96.7 97.1 97.5 97	- 2	1000	60.1	73.2	73.4	76 . 8	67.1	81.9	83.0	64.1	84.8	85.9	66.6	87.3	87.3	F7.3	67.3	87.
1 00 02.7 78.6 80.1 84.4 88.3 89.9 91.7 93.1 94.6 95.7 96.4 96.7 97.1 97.1 97.1 97.1 97.1 97.1 97.1 97				73.5	74.6	77.9	81.2	ê3•L	84.1	85.1	85.9	P7.0		49.0	69.q	₽ g . 4	89.4	88.
9001 62.7 78.6 80.1 84.4 88.5 69.9 91.7 93.1 94.6 95.7 98.4 90.7 97.1 97.1 97.1 97.1 97.1 97.1 97.1 97		12501	62.7	78.6	60.1	84.4	68.J	85.9	91.7	93.1	94.6	95.7	94.4	96.7	97.1	07.1	97.1	97.
800 62.7 78.6 80.4 84.6 68.4 90.2 92.0 93.5 94.9 96.0 96.7 97.1 97.5 97.5 97.5 97.5 97.5 97.5 97.5 97.5 97.8 97.8 97.8 97.8 97.8 97.8 97.8 97.8 97.8 97.8 97.8 97.8 97.8 97.8 97.8 97.9 97.8 94.2 95.7 96.7 97.5 97.8 98.2 <td>:</td> <td>ract</td> <td>L2.7</td> <td>7à.6</td> <td>80.1</td> <td>84.4</td> <td>Ł8.j</td> <td>89.9</td> <td>91.7</td> <td>93.1</td> <td>94.6</td> <td>95.7</td> <td>96.4</td> <td>96.7</td> <td>97.1</td> <td>97.1</td> <td>97.1</td> <td>97.</td>	:	ract	L2.7	7à.6	80.1	84.4	Ł8.j	89.9	91.7	93.1	94.6	95.7	96.4	96.7	97.1	97.1	97.1	97.
7(c) 62.7 78.6 8C.8 85.1 88.8 90.6 92.4 93.8 95.3 96.4 97.1 97.5 97.8 97.8 97.8 9 60.1 63.0 79.0 81.2 85.5 89.1 90.9 90.8 94.2 95.7 96.7 97.5 97.5 97.8 98.2 98.2 9 40.1 63.0 79.3 81.5 85.9 87.5 91.3 93.1 94.6 96.0 97.1 97.8 98.2 98.6 98.6 9 70.1 83.0 79.3 81.5 85.9 89.5 91.3 93.1 94.6 96.0 97.1 97.8 98.2 98.6 98.6 9 70.1 83.0 79.3 81.5 85.9 89.5 91.3 93.1 94.6 96.0 97.1 97.8 98.2 98.6 98.6 9 70.1 83.0 79.3 81.5 85.9 89.5 91.3 93.1 94.6 96.0 97.1 97.8 98.2 98.6 98.6 9 70.1 83.0 79.3 81.5 85.9 89.5 91.3 93.1 94.6 96.0 97.1 97.8 98.2 98.6 98.6 9 70.1 83.0 79.3 81.5 85.9 89.5 91.3 93.1 94.6 96.0 97.1 97.8 98.2 98.6 98.6 98.6 9 70.1 83.0 77.3 81.5 85.9 89.5 91.3 93.1 94.6 96.0 97.1 97.8 98.2 98.6 98.6 98.6 9 70.1 83.0 77.3 81.5 85.9 87.5 91.3 93.1 94.6 96.0 97.1 97.8 98.2 98.6 98.6 98.6 9 70.1 97.8 98.2 98.6 98.6 98.6 98.6 98.6 98.6 98.6 98.6		9001	62.7	78.6	B 11 • 1	84.4	68.0	69.9	91.7	93,1	94.6	95.7	96.4	96.7	97.1	97.1	97.1	97.
6001 63.0 79.0 31.1 85.5 89.1 90.9 90.8 94.2 95.7 96.7 97.5 97.8 98.2 98.2 98.2 9 5001 63.0 79.0 31.2 85.5 89.1 90.9 92.8 94.2 95.7 96.7 97.5 97.8 98.2 98.2 98.2 9 4001 63.0 79.3 31.5 85.9 89.5 91.3 93.1 94.6 96.0 97.1 97.8 98.2 98.6 98.6 9 5001 63.0 79.3 81.5 85.9 89.5 91.3 93.1 94.6 96.0 97.1 97.9 98.2 98.6 98.6 98.6 9 5001 63.0 79.3 81.5 80.9 89.5 91.3 93.1 94.6 96.0 97.1 97.9 98.2 98.6 98.9 98.9 9				78.6	8 C • 4	84 . 5	c B . 4	90.2		93.5		96.0	94.7	97.1		97.5		97.
5.01 63.0 79.2 81.2 85.5 89.1 90.9 92.8 94.2 95.7 96.7 97.5 97.8 98.2 98.2 98.2 9 4.01 63.0 79.3 81.5 85.9 87.5 91.3 93.1 94.6 96.0 97.1 97.8 98.2 98.6 98.6 98.6 9 7.01 63.0 79.3 81.5 85.9 89.5 91.3 93.1 94.6 96.0 97.1 97.9 98.2 98.6 98.6 98.6 98.6 98.6 98.6 98.6 98.8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9				78+6	ac.a	85 - 1	68.5	90.6	92.4	93.6	95.3	96.4	97.1	97.5	97.9	97.8		97.
4881 63.8 79.3 61.5 85.9 89.5 91.3 93.1 94.6 96.0 97.1 97.8 98.2 98.6 98.6 98.6 9 7881 63.8 79.3 81.5 85.9 89.5 91.3 93.1 94.6 96.0 97.1 97.4 98.2 98.6 98.6 98.6 9 7881 63.8 77.3 81.5 88.4 89.5 91.3 93.1 94.6 96.0 97.1 97.4 98.2 98.6 98.9 98.9 9		61.71	63.C	79.0	51.2	85.5	89.1	90.9	92.8	94.2	y5.7	96.7	97.5	97.8	98.2	98.2	98.2	98.
7001 63.0 79.3 81.5 65.9 69.5 91.3 93.1 94.6 96.9 97.1 97.0 98.2 98.6 98.6 98.6 9 7001 63.0 79.3 61.5 85.9 89.5 91.3 93.1 94.6 96.0 97.1 97.4 98.2 98.6 98.9 98.9 9		5.001	63.0	79.	61.2	85.5	69.1	9C.9	92.8	94.2	75.7	96.7	97.5	97.8	98.2	98.2	98.2	98.
101 t3.0 77.3 b1.5 85.9 89.5 71.3 93.1 94.6 96.0 97.1 97.4 98.2 98.6 96.9 98.9 9														98.2			98.6	96.
															•			98.
1001 63.2 79.3 81.5 55.9 69.5 91.3 93.1 94.6 96.0 97.1 97.9 98.2 98.6 96.9 98.9 9								91.3	93.1	94.6								98.
		1921	63.2	74.3	81.5	55 . 9	89.5	91.3	93.1	94.6	96.0	97.1	97.9	98.2	93.6	98.9	98.9	99.

GLODAL CLIMATOLOGY BRANCH LSAFETAC AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURPENCE OF CEILING VEHIUS VISIBILITY FROM HOURLY OBSERVATIONS

 \bigcirc

0

()

 \Box

0 C Ó

 \bigcirc

STAT	ION N	ՍԻՑՆԲ:	221130	STATE	ON NAME:	HURM	ANSK US	SR						OPU: 78			
												HONTH			(LST):	ALL	
CEIL.		• • • • • •	• • • • • • •	• • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • •				HUNDREDS							• • • • • • • • •
IN		ΘĪ	GŁ,	3.0	ωE	GE	65	€ F	GE	ĞE	GE	r, E	GE	GE	G E	SL	GΕ
FEE	t i	160	96	6달	6 Ľ	4.5	4.0	32	24	23	16	1 7	1 d	8	5	4	0
		• • • • •				• • • • • •	• • • • • •	• • • • • • •	• • • • • • • •	• • • • • • •	• • • • • •	• • • • • •	• • • • • • •	• • • • • •		• • • • • • •	• • • • • • • •
NO CI	EIL 1	.5.0	29.1	37.4	32.6	34.6	35.7	36 • 6	37.3	37.3	38.2	3 4 . 3	38.4	38.4	38.5	38.5	38.5
	00 n.l	20.7	33.6	35.3	37.4	39.4	40.4	41.5	42.2	42.9	43.2	47.3	43.4	43.4	43.5	43.5	43.5
		23.7		35.0	37.4	39,4	46.4	41.5	42.2	42.8	43.2	47.7	43.4	43.4	43.5	43.5	43.5
		29.7	33.6	35.3	37.4	39.4	46.4	41.5	42.2	42.8	43.2	47.1	43.4	43.4	43.5	43.5	43.5
						-	40.4	41.5	42.2	42.9	43.2	47.3	43.4	43.4	43.5	43.5	43.5
		23.7	73.6	35.0	37.4	37.4		41.5	42.2	42.8	43.2	4 7 . 3	43.4	43.4	43.5	43.5	43.5
UE 1.	2.311	23.7	33.b	35.	37 • 4	39.4	40.4	41.5	42.2	42.8	43.2	4	43.4	43.4	43.5	43.5	43.5
E 13	anen I	43.4	46.6	48.5	51.4	53.0	55.3	56.7	57.7	58.6	59.0	50.2	59.3	59.4	59.4	59.4	59.4
		47.4	46.6	48.5	51.4	53.8	55.3	56.7	57.7	38.6	59.0	50.2	59.3	59.4	59.4	59.4	59.4
		47.4	46.6	48.5	51.4	53.5	55.3	56.7	57.7	58.5	59.C	50.7	54.3	59.4	59.4	59.4	59.4
		42.4	46.6	48.5	51.4	53.e	55.3	56 • 7	57.7	58.6	59 · G	50.7	59.3	52.4	59.4	59.4	59.4
		4 3 . 5	46.7	48.5	51.4	53.9	55.3	56.7	57.8	38.6	59.1	50.2	59.4	59.4	59.5	59.5	59.5
GC .	0. 001	7,13	40.1	40.0	3,1.4	3 , , ,	13.3	30.1	71.0	30.0	,,••	,	,,,,,	3.4.	2713	3	,,,,
UE '	50001	41.1	47.3	49.2	52.3	54.5	56.0	57.4	58.4	59.2	59.7	50.A	53.9	60.1	63.1	60.1	60.1
66 (45 33 1	41.5	47.8	49.6	52.5	55.0	56.5	57.9	59.9	59.3	50.2	67.7	63.5	67.6	60.6	€0.6	63.6
		43.7	50.2	52.0	54.9	57.4	59.0	60.3	61.4	62.3	62.7	67.7	63.1	63.1	63.1	63.1	63.1
GE.	3571	44.3	50.0	52.6	55 . 6	53.1	59.6	61.7	62.0	62.9	63.4	67.5	63.7	63.7	63.8	63.8	63.8
SE	30001	44.5	51.3	53.1	56.6	53.5	60.1	61.5	62.5	03.4	63.8	54.7	64.2	64.2	64.2	64.2	64.2
				• • • •	30.10		••••	0.05					· · ·				
υE ;	ar de l	55.9	65.1	67.0	71.3	74.2	76.4	78.2	79.9	41.2	31.9	87.1	a 2 . 3	82.5	92.5	82.6	82.6
üξ.	andel	55.6	66.	68.4	72 - 1	75.2	77.4	79.2	87.9	82.2	92.9	83.2	83.3	83.5	83.5	83.6	P3.6
GF :	10001	57.0	66.5	68.5	72.5	75.6	77.8	79.7	81.4	62.7	93.4	52.7	93.9	84.0	P4.0	84.1	94.1
fr.É	15001	57.9	67.5	65.2	73.0	76.7	79. Ü	87.8	82.5	83.9	84.5	£4.8	95.0	85.1	95.2	85.2	85.2
1, E	iceni	61.1	72.7	75.7	80.5	64.4	97.2	87.7	92.0	94.J	95.4	35.7	95.9	96.4	96.4	96.5	96.5
											-						
LE.	11501	61.3	77.0	76.0	8., . 8	04.7	H 7 • 5	90.1	92.4	94.4	25.7	35.1	95.3	96.7	96.8	96.8	96.8
6 E	40.71	61.3	77.2	76.	81.0	84.9	P7.7	90.3	92.6	94.6	75.9	46.2	96.5	96.9	97.3	97.0	97.0
L E	P .) [61.3	73.2	16.2	А	85.0	37.8	90.4	92.7	94.7	96.1	96.4	96.6	97.1	27.1	97.2	97.2
U.F	*v01	(1.4	73.4	76.6	61.5	85.5	F8.4	91.0	93.3	95.4	96.7	97.7	91.2	97.7	97.8	97.8	97.8
G C	1001	61.5	73.5	78.7	91.5	85.7	48.6	91.2	93.5	95.6	96.9	97.2	27.5	97.9	98.3	98.C	96.0
G E		61.5	73.6	76.6	91.7	65.9	88.0	91.4	93.8	95.9	97.2	57.5	97.8	98.3	98.3	98.3	96.3
t. E		61.5	73.6	16.3	91.8	86.0	P8.9	91.5	24.0	96.1	97.4	47.A	98.1	98.5	98.6	98.6	96.6
θE		61.5	73.6	76.,	81.8	86.1	89.C	91.6	94.1	96.2	97.6	97.9	98.2	95.7	98.7	98.8	98.8
ંદ		61.	73.6	76.5	81.5	86.1	89.J	91.6	94.2	96.3	97.6	00.1	98.3	99.7	99.3	99.3	99.3
G F	1.01	61.5	73.6	76.4	81.6	66.1	89.0	91.6	94.2	96.3	97.6	4º. n	98.3	99.3	99.3	99.5	99.6
					-												

CF 0| 61.5 73.6 76.9 Pl.6 E6.1 89.0 91.6 94.2 96.3 97.6 9P.0 98.3 99.0 99.3 99.5 100.0

TOTAL NUMBER OF ORSERVATIONS: 2179

BLOBAL CLIMATOLOGY BRANCH USAFLTAC AIR BEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURPENCE OF CEILING VERSUS VISIBILITY FROM FOURLY OBSERVATIONS

STATION NUMBER: 221130 STATION NAME: MURMANSK USSR

STATION		-		_		_					MONTH		HOURS	(LST1: i		
CEP. In 6			• • • • • •	• • • • • • •	• • • • • • •				LNDREDS			• • • • • • •	• • • • • • •		• • • • • • •	• • • • • • • • • •
	1 61	L.F	()	6F	GE	ΘĒ	GE	411 411 1 GE	GE GE	GE	6L	C i	G E.	G.E	GE	G.F
	160	9(. 50	6.5	4.6	4.0	32	7.4	2 7	16	1.1	10	8	5	۷.	ū,
				-		_			<i></i>							
1.0 CETL	1 29.4	32.1	34.1	35 . 1	36.5	37.1	37.8	38.5	34.1	39.5	30.5	39.5	39.5	39.5	39.5	39.5
DE PLOBE		16.5	38.5	39 • ₺	41.5	42.5	43.5	44.1	44.8	45.2	45.0	45.2	45.2	45.2	45.2	45.2
6E 18060		36.5	38.5	39 • 8	41.5	42.5	43.5	44.1	44.5	45.2	4 5	45.5	45.2	45.2	45.2	45.2
0E 16 LC		36.5	38.5	39 ⋅ 6	41.5	42.5	43.5	44.3	44.2	45.2	45.	45.2	45.2	45.2	45.2	45.2
6E 14100		76.5	38.5	39.5	41.5	42.5	43.5	44.1	44.8	45.2	45.0	45.2	45.2	45.2	45.2	45.2
65 110C~	33.9	36.5	3 b ° č	39 ⋅ €	41.5	42.5	43,5	44.1	44 . R	45.2	45.	45.2	45.2	45.2	47.7	45.2
GE TESSE	1 20 0	42.5	44.5	46.2	40.2	56.2	51.5	52.2	52.8	53.2	51.5	500	53.2	53.2	53.2	53.2
		42.5		46.2			51.5			53.2			53.2			53.2
	i 58.8		44.9		40.2	5C•2		52.2	52.0		57.7			53.2	53.2	
	30.€	42.5	44.8	46.2	49.2	50.2	51.5	52 • 2	52.8	53.2	5 4	53.2	53.2	53.2	53.2	53.2
	1 38.8	42.5	44.5	46 • 2	49.2	50.2	51.5	52 • 2	52.6	53.2	5 (53.2	53.2	53.2	53.2	53.2
ri filou	1 38.8	42.5	44.0	40.2	49.2	50.2	51.5	52.2	52.₹	53.2	5 7. 3	[3.5	93.2	53.2	53.2	53.2
นา รามส	1 39.1	43.1	45.5	46 . 8	57.2	51.2	52.5	53.2	53.5	54.2	50.7	54.2	54.2	54.2	54.2	54.2
	41	44.1	46.5	47 • B	51.2	52.2	53.5	54.2	54.8	-5.2	46	55.2	55.2	55.2	55.	55.2
	42.1	46.2	48.5	49.6	53.5	54.5	55.9	56.5	57.2	57.5		4.7.4	57.5	57.5	57.5	57.5
	47.0	46.8	49.2	50.5	54.2	55.2	56.5	57.2	57.9	58.2	64.	58.2	58.2	58.2	58.2	56.2
	43.A	47.6	50.2	51.5	55.2	56.2	57.5	58 2	59.9	59.2	50.5	59.2	59.2	59.2	59.2	55.2
500		-,,,,	J • 2		3		3,	J 17 2	• /• /			• • •	,,,,			,,,,
CE 25	1 52.8	58.5	61.2	63.2	67.2	68.6	70.6	71.9	12.9	73.6	73.6	73.6	73.6	73.6	73.6	73.6
6F 2750	55.9	62.9	65.6	67.6	71.6	73.6	75.6	76,	77.9	79.6	79.1.	7 F . C	78.6	78.6	79.6	78.6
55 15 m	1 57.5	65.2	67.0	69.9	73.9	75.9	79.3	77 6	83.K	A1.3	91.1	e 1 • 3	P1.3	°1.3	81.3	81.3
U.E. 1500	1 50.9	60.0	69.2	71.2	74.3	77.3	77 .:	50.9	51.7	42.€	87.6	A2.6	82.6	P2.6	82.6	82.6
28 123f	1 60.5	73.6	17.2	PJ.9	85.6	06.6	92.0	93.3	,4. 7	95.7	95.7	95	95.7	95.7	95.7	95.7
LE 1000	1 67.2	73.5	17.E	91.;	86 × J	89. C	92 + 3	93.€	94.6	96.0	96.3	96.0	46.0	96.0	96.C	96.0
65 57	1 62.2	71,9	77.6	91.3	h6.√	99. C	42.3	93.6	74.6	96.C	96.0	76.C	96.7	96.0	96.0	96.0
	1 63.2	74.6	78.5	81.9	86.6	A9.6	97.0	94.3	95.3	96.7	45.7	96.7	95.7	96.7	96.7	96.7
CE 76.0	1 63.2	74.5	15.7	F1.9	66.6	F9.6	93.2	94.3	95.3	9€ . 7	94.7	96.7	96.7	96.7	96.7	96.7
GF ECT	1 67.7	74.5	78.3	8	1.6 . 6	46.0	93.3	94.6	45.7	97.6	47.3	37.3	97.7	97.0	97.C	97.0
		_														
	61.0	74.6	78.7	91.9	6.33	ل من ۲۰	93.3	74.6	95.7	°7.0	97."	57.0	97.0	97.0	97.0	91.3
	F 7.5	74.	78.6	P2.3	₹7.3	9C+3	47.5	95. U	96.7	97.3	97.7	:7.3	97.3	97.3	97.3	97.3
	62.5	74.5	78.5	52.3	£7.	40.3	93.6	95 • D	96.7	21.3	97.7	7 . 3	97.3	97.3	97.3	97.3
	1 63.5	74.5	78.6	82.5	€7.0	.(.3	93.6	95.0	₹6.0	97.3	97.7	1.3	97.7	98.0	98.0	96.C
FE 190	1 (3,5	74,4	74.6	9 3	87•€	GL. 3	43.6	95 . L	46.0	97.3	97.	97.3	97.7	98.7	99.0	100.0
LF -	1 67.5	74.5	16.0	F2.3	67.0	93.3	93.6	95.6	96 • C	97.3	97.3	97.3	97.7	58.7	00.0	100.0
																1.0.0

GLOBAL CLIMATPLOGY PRANCE AIR WEATHER SERVICEZMAC

STATICH NUMPER: 221131 STATION NAME: MURMANSK USSR

PERCENTAGE FREQUENCY OF OCCURPENCE OF CEILING VEHSUS VICIBILITY FROM HOURLY OBSERVATIONS

FE2100 OF FECORD: 78-87 PONTH: MAP FOURS(LST): 0300-0500 ****************************** VISIBILITY IN HUNDREDS OF METERS CE GE GE GE SE CFILI2.6 .FILIMO - IM | CT - FEET | 165 Of GE s E ύE Αυ GE GE 6.5 G E g Ն**೯** 5 CE O 32 23 4 0 40 24 16 ن 1 NO CEIL 1 79.9 37.2 39.5 79.8 32.9 19.8 36.5 38.8 18. E 30.8 39.8 40.1 40.1 65 260001 30.3 73.1 34.9 39.2 79.5 39.8 70.5 40.1 41.9 41.1 41.1 41.1 41.1 41.4 41.4 0F 18700| 37.3 6E 16100| 37.3 05 14704| 37.3 73.2 34.4 3t + 8 39.2 39.5 39.8 40.5 41.1 41.1 40.1 41.1 41.1 41.1 41.4 41.4 33.2 34.9 36.6 38.2 35.5 39.8 40.1 40.8 41.1 41.1 41.1 41.4 41.4 79.5 34.5 39.8 40.8 36.8 18.2 40.1 41.1 41.1 91.1 41.1 41.1 41.4 41.4 39.8 23.2 34.9 41.1 40.8 41.1 41.4 41.4 101601 35.0 90001 26.0 6001 36.0 71601 35.2 49.] (, f 42.0 44.7 47.4 51.3 53.0 51.6 52.3 53.€ 53.5 63.6 53.9 53.9 53.6 53.6 1- f. 42.5 44.7 47.4 49.0 51.3 51.6 51.6 52.3 52.3 53.0 53.6 53.6 57.4 51.6 57.5 53.6 53.6 53.6 53.9 42.8 44.7 47.4 49.3 51.3 53.6 53.n 53.6 53.9 53.9 49.3 51.6 t_iF 42.0 44.7 47 - 4 42. 41,4 51.6 51.3 52.3 53.0 53.6 53.6 53.6 53.6 53.9 Frunt 35.2 45301 38.2 40001 40.1 35.01 40.5 : [40. , 51.3 51.6 52.3 53.0 53.6 53.6 53.6 53.6 51.6 53.9 53.9 υF 42.E 45.4 44.7 47.4 49.0 51.3 51.6 52.3 53.2 53.6 53.4 53.6 53.6 53.6 53.9 53.9 6.3 6.6 U.E. 50.0 51.6 55.6 54. 1 53.9 54.3 54.9 56.3 55.3 56.3 56.6 56.6 45.7 47.7 55.3 54.6 55.9 56.6 56 . 6 56.6 56.9 56.9 47.5 57.6 51.6 55.9 56.3 56.9 58.2 250 4 51.6 2700| 94.3 1800| 54.3 :0.5 51.0 65 . 1 69.1 71.1 71.4 72.4 13.7 74.3 74.3 74.3 74.3 74.7 65 62.2 54.5 67.8 79 - 7 74.0 77.C 77.3 77.0 73.7 75.D 76.3 77.0 77.7 77.3 77.3 55.8 72.5 75.5 .. F 03.5 69.1 75.U 75.3 77.6 78.3 79.3 78.3 78.3 78.6 78.6 15ub| 50.6 11ab| 50.6 56.1 68.4 81.6 78.0 78.3 79.3 80.5 81.3 51.7 91.3 81.3 81.3 92.8 72.8 92.8 93.1 7 : . 1 82.9 t, F 11001 58.6 71.1 71.4 78.3 25.9 87.8 91.1 92.8 93.8 91.0 93.8 94.1 93.8 93.8 94.1 9. 31 58.6 601 58.6 7031 58.6 G.F 74.0 83.2 86.2 86.5 93.1 93.4 94.4 94.4 74.6 88.2 91.4 94.1 94.1 94.1 94.1 04.1 l+E UF 71.7 74.3 76.4 53.6 81.7 88.5 91.8 ÷4 . 4 94.4 44.4 94.4 94.4 74.3 71.7 78.9 86.8 83.8 92.1 93.8 94.7 94.7 94.7 94.7 I, f 1001 58.6 78.9 89.1 92.4 95.1 15.1 r6.8 94.1 95.1 95.1 95.1 95.4 1071 54.6

89.1

89.5 89.5

89.5

99.5

92.4

92.8

92.8

92.8

92.8

92.8

94.1

94.4

94.4

94.4

94.4

94.4

9 - 1

35.7

95.7

95.7

91.7

95.1

95.7

25.7

35.7

95.7

95.1

95.7

95.7

97.7

97.7

95.4

96.1

96.1

98.7

95.1

95.7

95.7

98.4

95.4

96.1

96.1

98.7

100.0

25.1

95.7

95.7

95.7

95.7

95.7

TOTAL NUMBER OF OBSERVATIONS:

.1 58.9 72.3 74.7

72.5 72.6

72. . .

4 (0) 52.9 (0) 53.9

1,1

υ£

74.5

74.7

74.7

74.1

83.9

£4.2

84.2

84.2

79.3 84.2 27.2

79.3

79.3

79.3

36.8

A7.2

97.2

A7.2

CLOBAL CLIMATOLOGY FRANCH PERCENTAGE FREQUENCY OF OCCUPRENCE OF CFILING VERSUS VISIBILITY USAFILIAC FROM HOURLY OBSERVATIONS AIR WEATHER SERVICEZMAC

STATION NUME	PER: 22113	J STATI	Ch NAME:	MURH	ANSK USS	S R				DE SIOO	OF PEC	ORD: 78	-8 7		
										MUNITH	: MAF	HOURS	(LST1:	0600-08	00
CEIL146		• • • • • • • •	• • • • • • • •	• • • • • •			ITY IN				• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • • • • •
IN I (∍T b l	5.6	6 E	GE	GΕ	GE	GE	GŁ	GE	SE	Gł.	GE	GE	GΕ	GE
FEET I	160 93	8.3	6 u	4.5	40	3.2	24		16	1.7	1.0	а	5	4	o
PO CETE 1 5:	26.9	27.2	28.9	29.6	31.2	31.9	32.2	35.	34 . 6	35.5	35.9	35.9	35.9	35.9	35.9
⊸aE ganusi Ça		2 F. • 6	3C • 2	30.9	32.6	33.2	33.6	34.6	15.9	36.9	₹7 • 2	37.2	77.2	37.2	37.2
68 130001 21		28.4	30 + 2	31.9	32.6	33.2	33.6	34.6	35.9	36.7	37.2	37.2	37.2	37.2	37.2
UE 16/001 23		28.0	30.2	37.9	32.6	33.2	33.6	34.6	35 • 9	36.9	37.2	37.2	31.2	37.2	37.2
CE 147001 23		2F.6	30.2	33.9	32.6	33.2	33.6	34.6	35.9	36.7	37.2	37.2	37.2	37.2	37.2
e2 [3003] S	3.6 27.9	28.6	3.1 • 2	30.9	32.6	33.2	33.6	34.6	75 • 9	36.9	37.2	37.2	37.2	37.2	37.2
6E 100001 39		37.5	39.5	41.9	44.2	45.2	45.5	46.5	48.2	42.7	49.5	49.5	49.5	49.5	49.5
6E 9000 31		37.5	39.5	41.9	44.2	45.2	45.5	46.5	48.2	47.2	47.5	49.5	49.5	49.5	49.5
05 F000 31		37.5	39.5	41.9	44.2	45.2	45.5	46.5	48.2	43.5	49.5	49.5	49.5	49.5	49.5
UF 70001 31		37.5	39.5	41.9	44.2	45.2	45.5	46.5	48.2	49.3	49.5	19.5	49.5	49.5	49.5
6F 6093 31	1.2 76.9	37.5	39.5	41.9	44.2	45 • 2	45.5	46.5	48.2	49.2	49.5	49.5	49.5	49.5	49.5
6E 57001 31	37.2	38.2	40.2	42.5	44.9	45.8	46.2	47.2	48.8	49.0	50.2	50.2	50.2	50.2	50.2
UE 45001 31	1.6 37.2	36.2	40.2	42.5	44.9	45.8	46.2	47.2	48.8	49.8	50.2	50.2	50.2	50.2	5 C • 2
UE 40001 33		47.5	42.9	45.5	47.8	48.8	49.2	50.2	51.8	52.2	53.2	53.2	53.2	53.2	53.2
6E 37JU1 34	40.2	41.2	43.5	46.2	48.5	49.5	49.8	50.8	52.5	53.5	53.8	53.8	53.8	53.8	53.8
GE 3.001 36	42.2	4 1 . 2	45.8	48.5	50.8	51.8	52.2	53.2	54.8	55.3	56.1	56.1	56.1	56.1	56.1
66 25 pt 43		53.5	57.5	63.5	62.8	64.5	64.€	66.1	67.8	6 d • 8	69.1	69.1	69.1	69.1	69.1
2000 1 4 €		55.45	59.0	62.6	65.1	66.8	57.4	68.8	70.4	71.4	71.8	71.8	71.8	71.8	71.8
- 6E 1863 46		57.5	51.5	64.5	66.8	68.4	69.1	73.4	72.1	73.1	73.4	73.4	73.4	73.4	73.4
- 6E - 15U0 56		67.1	66.4	67.4	72.4	74 • 1	74.8	76.1	77.7	74.7	79 • 1	79.1	79.1	79.1	79.1
⊌E 17⊎0 53	K.P 66.1	69.8	73.8	78.1	82.7	84.7	88.0	89.7	01.4	97.7	93.7	95.7	93.0	93.0	93.6
ur 17301 53	E.P 60.4	59.4	74.4	73.7	23.4	85.4	88.7	93.4	92.0	v T . 4	23.7	93.7	93.7	93.7	93.7
of 9001 54		69.8	74.5	79.1	# 3 · 7	85.7	89.7	90.7	72.4	93.7	94.j	94.0	94.0	94.0	94.0
CE 450 54		70.1	75 • i	79.4	54.1	86.3	87.4	91.0	92.7	9 4 . ~	24.4	94.4	94.4	94.4	94.4
67 7311 54		711.4	75.7	87.4	25.4	87.4	93.7	92.4	94.0	95.3	95.7	95.7	95.7	95.7	95.7
55 KUNT 54		70.4	75.7	87.4	55.4	87.4	90.7	92.4	24.0	96.	95.7	95.7	95.7	95.7	95.7
					•										
5.51 54	67.4	70.4	75.7	80.4	85.4	87.4	99.7	92.4	94.0	95.3	75.7	95.7	95.7	95.7	95.7
65 4331 54		70.4	75.7	83.4	95.7	87.7	71.0	92.7	94.4	95.7	96.0	96.0	96.3	96.0	96.0
6E 7.01 54		7:2:4	75 . 7	60.4	ē5.7	87.7	91. L	92.7	94.4	95.7	96.0	96.0	96.3	96.0	96.0
GE 2011 54		70.4	75 • 7	87.4	85.7	87.7	91.C	92.7	94.4	95.7	96 . J	97.0	97.7	97.7	97.7
07 100 54	67.4	70.4	75.7	87.4	°5.7	87.7	91.0	92.7	94.4	95.7	96 • C	97.3	99.0	98.3	99.0
51 51 54	1.5 67.4	70.4	75.7	87.4	85.7	87.7	01 "	92.7	94.4	95.7	24 6	07.0	20.2	98.3	100.0
							91.3				76.0	97.0	98.0	76.3	10000
													• • • • • • •		

JLJDAL CLIMATOLOGY BRANCH USAFETAC AIR WEATHER SERVICE/MAC

1

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIPILITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 221130 STATION NAME: MURMANSK USSR PERIOD OF RECORD: 74-87
MONTH: MAR FOURS(LST): 0900-1100 VISIGILITY IN HUNDREDS OF METERS CEILING GE GE J ĿΕ GE GΞ GE 24 GE GŁ 1.4 GĘ FELT 43 40 32 16 12 13 9 5 4 9 6.. 76.1 NO CETE 1 18-1 35.5 36.9 37.1 21.1 21.1 23.4 25.8 29.1 37.4 32.4 33.8 35.5 76.B 36.8 GE 200001 22:1 66 18:001 22:1 66 160011 27:1 66 140001 27:1 96 140001 27:1 37.1 47.8 42.5 4 3 . R 44.5 44.5 44.8 26.1 27.1 2a • a 31.1 15.8 39.8 41.1 44.5 42.4 42.4 42.4 42.4 27.1 27.1 35.3 37.1 42.6 43.8 44.5 44.5 44.5 44.8 26.1 37.8 41.1 29.8 31.1 35.8 26.1 31.1 39.8 41.1 42.2 43.A 44.5 44.5 44.5 44.8 43.6 26-1 27.1 : 3 . 4 31.1 37.1 19.4 41.1 42.8 44.5 44.5 44.8 55.9 55.9 0E 10001 30•1 0E 9100 10•1 0E 8101 31•1 57.1 37.1 41.6 47.2 49.2 52.5 54.2 55.9 57.2 57.9 £7.9 57.9 56.2 35. € 35.5 35.6 37.1 57.1 39 · 1 39 · 1 41.5 47.2 49.2 52.5 54.2 55.9 55.9 57.2 37.2 57.9 57.9 57.9 17.9 57.9 57.9 58.2 58.2 54.2 52.5 52.5 70631 30.1 60001 30.1 57.2 57.2 57.9 57.9 39.1 47. 2 49.2 54.2 55.9 57.9 57.9 58.2 49.2 58.2 47.2 35.8 41.8 52.5 58.5 51071 31.4 37.5 49.5 52.8 ۹.6.2 58.2 6 F 36.1 39.5 47.1 47.5 54.5 55.2 57.5 57.5 54.¢ 50.7 4°001 30.8 35.5 37.8 77.8 37.F 47.9 49.8 56.9 58.2 58.7 58.9 58.9 59.2 37.8 42.5 53.2 43.8 43.8 55.2 39.1 60.5 61.2 61.5 41.1 49.8 51.8 59.2 61.2 61.2 30001 31.4 41.1 33.5 30.0 44.5 53.5 52.5 55,9 59.2 59.9 57.7 1.2 61.9 61.9 61.9 62.2 25/05 | 39.5 75.4 76.9 LΕ 49.5 0.1c 53.8 57.5 63.9 66.2 70.2 72.9 74.6 74.5 76.6 76.6 16.6 75.6 76.3 72.6 52.3 57.2 55.5 6 E 5 E 2-001 34.8 50.5 50.8 59.2 59.2 67.2 71.2 71.9 73.9 74.6 75.6 76.9 77.6 77.6 77.6 77.9 54.0 64.9 77.6 19301 40-1 61.5 76.9 8J.6 96.3 15 16 1 41.5 5 3 - 3 57.9 67.9 79.2 74.2 78.6 83.6 80.6 80.9 86.6 17001 44.8 72.6 77.3 79.9 93.0 95.0 96.7 97.0 6 E 59.2 62.5 97.C 91.5 96.7 65.6 7001 45.5 6001 45.5 7001 45.5 97.3 97.3 97.7 G E 59.5 59.5 62.9 52.9 65.9 65.9 77.4 77.6 77.6 87.3 87.3 87.3 91.3 91.3 93.3 93.3 93.6 93.6 95.3 95.3 97.0 97.0 97.3 97.0 97.3 87.3 97.0 63.2 93.9 24.3 96.0 u F 59.9 66.6 71.6 78.3 81.3 88.6 92.6 95. 96.7 98.3 98.3 99.3 98.7 5031 45.5 95.7 98.7 59.9 63.5 71.6 74.3 81.3 99.5 78.3 98.3 55 60.0 93.6 92.6 94 - 6 96.7 95.3 45.5 3031 45.5 7031 45.5 93.0 95.0 98.7 98.7 99.0 63.2 67.5 66.9 97.3 78.7 99.7 76.6 81.6 71.9 89.3 1.5 60.2 63.5 66.9 71.9 78.6 81.6 89.0 93.0 93.0 95.0 95.0 77.d 96.7 98.7 99.0 97.2 71.9 100.0 78.6 81.6 1371 45.5 63.5 89.0 93.0 25.0 91.1 97.0 99.3 99.7 99.7 100.0 100.0 71 45.5 71.9 81.6 89.0 95.0 91.3 97.0 99.3 99.7 99.7

AIR WEATHER SERVICE/MAC

GLOBAL CLIMATOLOGY BRANCH PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM FOURLY OBSERVATIONS

PERIOD OF RECOPD: 78-87 STATION NUMBER: 221132 STATION NAME: MURMANSK USSR MONTH: MAR HOURS (LST): 1200-1400 VISIBILITY IN HUNDREDS OF METERS GE GE GE GE S 40 32 24 20 16 CFILING IN | GT FEET | 160 5E 12 G E g GE GE 90 au GE G 43 10 4 4 60 5 15.2 ∪E 20040| 29.€ 35.5 37.2 39.2 40.6 43. C 44.4 49.1 49.1 49.8 40.4 50.2 50.2 50.2 50.2 50.2 6E 16mg31 29.0 6E 16mg31 29.0 6E 14mg31 29.0 37.2 37.2 37.2 75.5 35.5 35.5 49.1 49.8 49.8 49.3 50.2 50.2 50.2 50.2 50.2 39 • 2 40.6 43.0 44.4 48.1 50.2 39.2 39.2 43.6 43.0 44.4 48.1 50.2 49.1 49.9 47.6 43.0 JE 120001 29.4 35.8 37.5 37 . . 41.1 44.7 48.5 49.5 50.2 50.5 50.5 50.5 50.5 50.5 65 100001 35.0 44.0 46.1 49.1 53.9 54.6 56.0 60.1 62.5 63.1 63.1 63.5 63.5 63.5 63.5 63.5 S.E. y"u11 35.ε 51.9 51.7 50.7 62.5 61.1 63.5 63.5 63.5 63.5 44.3 45.1 49.1 54.€ 56.0 60.1 63.1 63.5 80001 35.8 70001 35.8 63.1 63.5 63.5 63.5 44.3 45.1 47.1 54.6 56.0 63.1 62.5 63.1 63.5 0.5 44.0 49.1 62.5 46.1 54.6 56.0 63.1 53.1 53.5 63.5 60031 35.4 6 J. 1 63.5 5000| 36.2 4530| 36.2 4530| 37.5 54.9 67.a 63.8 56.3 63.8 63.8 ωE 44.4 46.4 49.5 51.2 51.2 52.9 54.9 56.7 56 • 3 58 • 0 60.4 62.8 64.5 63.5 65.2 53.5 65.2 63.4 63.8 65.5 63.8 65.5 63.8 65.5 63.6 46.1 62.1 65.5 GE 55.2 65.5 35001 37.5 46.1 48.1 51.2 52.9 56.7 59.0 62.1 64.5 65.5 65.5 65.5 65.5 65.5 48.5 65.9 65.9 65.9 51.5 53.2 62.5 65.9 G E 30601 37.9 46.4 57. D 65.9 25 301 44.7 55.3 53.0 59.0 70.0 74.7 78.5 79.5 79.3 90.9 87.9 £3.9 60.9 80.9 61.3 63.8 58.6 65 2100| 45.7 1800| 46.8 75.8 77.1 87.9 82.3 81.9 83.5 56.3 57.7 62.6 59.6 71.0 71.J 72.4 90.5 81.9 81.9 61.9 19.5 83.3 57.4 64.2 66.2 80.9 81.9 93.3 63.3 63.3 60 15001 65.5 G.E 12031 52.6 55.5 73.3 76.5 81.9 90.1 97.3 97.3 97.6 11901 57+6 9001 52+6 59.5 59.9 υĘ 55.5 73.) 76.5 81.9 84.3 90.1 94.2 95.6 35.3 97.3 97.3 97.3 97.3 97.6 65.5 93.4 93.4 94.5 95.9 95.9 96.2 97.6 97.6 GE 73.4 76.8 92.3 84.6 97.6 97.6 98.0 FUD1 52.6 65.5 53.7 73.4 76.5 82.3 84.6 96.2 97.6 47.6 97.6 97.6 97.6 9 B • D 56.2 62.6 74.1 79.2 33.6 86.0 91.9 95.9 27.3 99.0 99.0 99.0 99.0 99.3 60.2 5001 52.9 66.3 92.2 77.3 64. C 97.6 99.3 99.3 99.7 65 67.0 86.3 95.2 4001 52.9 7631 57.9 7711 52.9 6 E 66.2 57.6 67.6 74 . 4 79.5 84.3 92.2 96.2 27.6 99.7 99.3 99.3 99.3 99.3 99.7 86.3 74 . 4 73.5 99.3 99.7 94.0 86.3 99.3 97.6 98.7 99.3 99.3 99.3 99.3 6 F 1001 52.9 66.2 5 7 . 0 74.4 24.0 86.3 92.2 96 . 7 97.6 99.3 99.3 99.7 99.7 100.0 21 52.9 66.2 99.7 100.0 1.F 13.6 74.4 73.5 84.0 86.3 92.2 96.2 77.6 38.7 99.3 1.00 99.7

GLOBAL CLIMATOLOGY BRANCH USAFLIAC AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURPENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 221133 STATION NAME: MUMMANSK USSR

PERIOD OF RECORD: 78-87
MONTH: MAR HOURS(LST): 1500-1700 VISIBILITY IN HUNDREDS OF METERS
GE GE GE GE SF
40 32 24 29 16 1 CETLING ۷E 95 61 61 GŁ 6E 33 υĒ GE GE GE GΕ 1 7 167 5 60 4.9 10 40 CETE 1 3:48 36.1 36.4 37.1 39.4 40.1 47.4 42.7 40.7 41.1 41.1 41.4 41.4 41.7 41.7 41.7 £2.3 UE 200301 37.4 UE 180001 39.4 45.4 45.4 45.4 51. ? 51.3 51.7 45.3 46.3 49.3 50.3 50.7 51.6 21.0 51.7 52.0 52.0 50.3 45.5 50.7 51.3 51.3 51.3 51.7 51.7 52.0 52.0 49.3 51.0 51.0 52.0 52.0 46.0 65 16703| 39.4 45.3 46.3 49.3 SC. 3 50.7 51.0 51.0 51.3 51.7 51.7 52.0 52.0 1.7 51.3 45.4 50.3 51.0 51.7 52.0 52.0 GE 143331 39.4 45.2 49.3 57.7 51.0 51.3 WE 120001 39.4 46.3 51.0 51.7 49.3 50.3 51.3 65 10001 46.7 53.6 55.3 53.6 62.6 65.6 66.2 61.5 64.6 66.2 56 . J 66 9137 46.7 68 8100 46.7 53.6 53.6 55.0 55.0 58.6 65.6 65.9 65.9 65.9 66.2 66.2 55.5 61.9 62.6 64.6 64.9 65.6 66.2 56.0 62.6 64.6 64.9 65.6 66.2 61.9 70001 46.7 53.6 55. 59.6 6 . 6 65.9 65.9 66.2 66.2 a F 60001 46.7 53.6 55.0 56.0 59.6 61.9 62.6 64.6 64.9 65.6 45.9 65.9 66.2 66.2 66.2 5:001 47.0 55.3 55.3 55.6 6 E 64.9 05.2 55.9 65.9 56.6 54. 1 55.3 58.9 62.3 62.9 66.2 66.2 66.6 66.6 62.6 45 301 47.0 40031 47.4 54.3 55.3 58.9 65.0 66.2 65.9 GE 62.7 64.9 65.2 65.9 66.2 66.9 66.6 57.3 63.2 05.6 66.2 SE 54.3 56.0 66.2 66.6 66.6 66.9 31001 47.7 66.9 56.0 57.3 57.5 67.2 5.5 54.6 62.9 65.6 46.6 66.9 63.6 ú F. 25231 59.6 77.2 72.2 74.5 77.8 01.1 82.5 34. R 25.4 45.4 85.8 65.8 86.1 86.1 86.1 2000| 61.9 1900| 62.6 73.2 74.2 75.2 75.2 76.2 77.5 87.3 F4.4 85.9 96.8 87.7 88.7 89.1 88.7 89.7 99.7 89.1 89.1 99.4 89.4 89.4 89.7 79.5 81.8 P5.4 90.1 90.4 90.4 90.4 90.1 1-331 67.6 91 · 1 98 · 3 6 F 17.2 79.5 82.0 26.4 37.7 87.7 y J . 1 90.7 91.1 91.4 91.4 91.4 79.1 6 82.1 86.1 90.1 99.0 90.4 90.4 1 031 64.3 92.5 66.4 91.7 95.7 97.7 98.1 98.7 99.3 99.3 99.3 1.5 9391 64.2 5331 64.2 95.7 95.7 97.7 77.5 57.1 22.5 P5.4 91.7 94.7 98.7 98.7 99.0 99.0 99.3 91.1 98.7 96.4 99.3 99.0 99.3 77.5 32.5 86.4 91.7 94.7 99.7 96.0 99.3 99.3 99.7 30.5 96.7 95.0 78.⊃ 49.C 99.7 99.3 ي و 6301 64.3 77.3 a ...5 92.8 86.3 96.7 92.1 95.0 16.0 98.0 99.0 99.7 99.3 99.7 77.8 5001 64.2 87.5 52.4 86.4 90.7 92.1 95.0 96.0 98.0 98.3 29.0 99.7 99.3 99.3 99.7 99.3 j F 4.01 64.6 78.1 80.8 23.1 87.1 91.1 98.3 93.7 99.3 99.7 99.7 100.0 92.4 95.4 96.4 . F 78.1 37.9 P3.1 67.1 91.1 92.4 95.4 96.4 78.3 99.7 99.3 99.7 99.7 100.0 121 64.6 94.7 98.3 99.3 99.3 99.7 99.7 78.1 81.3 33.1 67.1 91.1 92.4 95.4 96.4 100.0 91.1 92.4 96.4 98.3 75.1 40.0 92.4 95.4 93.7 21 64.6 93.1 67.1 91.1 96.4 98.7 99.3 100.0 99.3

TOTAL NUMBER OF OBSERVATIONS:

732

GLOMAL CLIMATOLOGY HRANCH USAFETAC AIR MEATHER SERVICE/MAC

PENCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIEILITY FROM HOURLY OBSERVATIONS

STATION NUMBER:	221137	21412				-				HONTH		HOURS	(LST):		00
CEILING	• • • • • •	• • • • • • •	• • • • • •	• • • • • • •		VISIBIL					• • • • • • •	• • • • • •	• • • • • • •	• • • • • • •	• • • • • • • • • •
IN 1 GI	6L	St	٤٤	GE	GE	GE	GE	GE	GE	GE	GF	GE	Űξ	GE	GE
FEET 160	30	36	65	4.4	40	32	24	5.0	16	12	10	R	5	4	Ü
	• • • • • •	• • • • • • •		• • • • • • •	• • • • • •	• • • • • •	• • • • • •	• • • • • • •	• • • • • •	• • • • • •	• • • • • •	• • • • • •	• • • • • •	• • • • • •	• • • • • • • •
40 CETE 1 31.8	35.5	36.5	36.5	27.1	27.1	37.5	37.5	37.8	17.8	37.9	37.8	38.1	78.1	38.1	38.1
6F 25C031 38•1	43.1	43.1	43.1	43.3	44.1	44.5	44.5	44.8	44.8	44.9	44.8	45.2	45.2	45.2	45.2
WE 185671 79.1	42.1	43.1	43.1	43.8	44.1	44.5	44.5	44.0	44.8	44.8	44.8	45.2	45.2	45.2	45.2
6E 16 101 38.1	42.1	43.1	43.1	43.8	44.1	44.5	44.5	44.8	44.8	44.2	44.8	45.2	45.2	45.2	45.2
UE 147001 39.1	42.1	43.1	43.1	43.8	44.1	44.5	44.5	44.6	44.6	44.2	44.8	45.2	45.2	45.2	45.2
GE 120001 38.1	42.1	43.1	43.1	43.8	44.1	44.5	44.5	44.8	44.6	44.9	44.8	45.2	45.2	45.2	45.2
0E 100001 52.2	56.2	59.5	60.9	62.2	63.2	63.9	64.2	65.2	65.2	65.7	65.2	h5•6	65.6	65.6	65.6
υΕ · 9" ιΓΙ 57.2	2.82	57.9	60.9	02.2	63.2	67.9	64.2	65.2	65.2	65.2	65.2	65.6	65.6	65.6	65.6
UE 6 331 53.2	58.2	50.0	60.9	67.2	63.2	63.9	64.2	65.2	65.2	65.2	65.2	65.6	65.6	65.6	65.6
GE 7: G21 52.2	50.2	50.0	64.9	62.2	63.2	63.7	64.2	65.2	65.2	65.2	65.2	65.6	65.6	65.6	65.6
UE 6000 52∙2	50.2	59.7	60.7	62.2	63.2	63.9	64.2	65.2	65.2	65.2	55.2	65.6	65,6	65.6	65.6
a∈ Shool sp.∈	58.5	63.2	61.2	62.5	63.5	64.2	64.5	65.6	55.€	6 K . 5	65.6	55.9	65.9	65.9	65.9
UE 450" 52.5	58.9	6.0.5	61.5	62.9	63.9	64.5	64.9	65.9	65.9	6 . 9	65.9	66.2	66.2	66.2	66.2
GE 4.501 53.5	60.2	61.9	62.9	64.2	65.2	65.9	66.2	67.2	67.2	67.2	57.2	67.6	67.6	67.6	67.6
ύΕ 350'-1 53•5	63.2	61.7	62.3	64.2	65.2	65.9	66.2	67.2	67.2	67.2	67.2	67.6	67.6	67.6	67.6
UE 300°; 15.5	42.2	03.4	64.9	66.2	€7.2	67.9	68.2	69.2	69.2	60.2	69.2	69.6	69.6	69.6	69.6
UE 25001 67.9	71.2	72.5	74.9	77.3	79.3	80.6	81.9	83.3	93.3	87.3	83.3	83.6	93.6	83.6	83.6
GE 21001 64.9	73.4	15.6	77.6	79.9	81.9	87.3	84.6	o6 · 0	96.0	86.0	96.0	86.3	06.3	86.3	86.3
0E 19601 65.2	74.2	75.7	77.4	8 3 - 3	82.3	83.6	84.9	66. 2	96.3	86.3	96.3	86.6	86.6	86.6	86.6
UE 15001 66.6	75.5	77.6	79.6	82.3	84.3	85.6	87. C	d R • 3	88.3	80.3	58.3	88.6	P6.6	88.6	88.6
6E 1:001 67.6	78.3	77.9	83.9	PB • 0	96.6	93.0	75.3	97.7	98.0	98.7	98.0	98.3	98.7	98.7	98.7
68 10031 67.5	78.6	87.7	94.6	8° • 0	71.3	93.6	96.0	98.3	98.7	9F.7	98.7	99.0	79.3	99.3	99.3
UF 959 67.9	78.9	8 " •€	84.9	89. 3	91.6	94.9	96.3	98.7	99.0	99.3	99.5	99.3	99.7	99.7	99.7
65 7631 67.9	73.9	3 T.6	84.7	89.7	71.6	94.0	96.3	98.7	99.0	90.0	99.0	99.3	99.7	99.7	99.7
UE 7001 67.9	74.9	85.6	F4.9	87.0	91.6	94.5	96.3	98.7	99.0	90.3	49.3	99.3	99.7	99.7	99.7
US 67.9	78.9	87.6	34,9	89.0	91-6	94.0	96.3	98.7	99.5	99.7	99.0	99.3	99.7	99.7	99.7
GF 5 (1) 67.9	78.9	87.6	P4 . #	an	91.6	94.0	96.3	96.7	99.C	99.7	99.0	99.3	99.7	99.7	99.7
UE 43 1 67.9	78.9	87.6	84.9	87.5	71.6	94.3	96.3	98.7	99.0	40.7	99.0	99.3	99.7	99.7	99.7
UF 74.1 67.9	76.9	80.6	84.9	87.3	91.6	94.0	96.3	98.7	99.0	99.7	99.0	99.3	99.7	99.7	99.7
ur 330 €7.9	78.5	07.6	84.7	87.3	91.6	94.2	76.3	99.7	39.C	99.3	99.3	99.7	170.5	130.0	100.0
GE 1001 67.9	78.9	8 7.6	94.9	69.J	91.6	94.0	96.3	98.7	30.0	90.3	99.3	99.7	100.0	100.0	100.0
1.0 01 67.9	73.9	90.6	94.7	go	¢1.6	94.0	96.3	98.7	99.3	90.7	99.3	99.7	100.0	100.0	100.0
	• • • • • •					• • • • • • •									

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VEHSUS VISIBILITY FROM HOURLY OBSERVATIONS GLUBAL CLIMATOLOGY BRANCH USAFETAC AIR WEATHER SERVICE/MAC

STATION NUMBER: 221132 STATION NAME: MURMANSK USSR

PE-10D OF PECOPD: 78-87 HONTH: MAR HOURS(LST): 2100-2300

VISIBILITY IN MUNDREDS OF METERS

GE GE GE GF GF 0611 1130 G<u>E</u> 24 61 Gξ GE G E 32 FEET | 160 27 40 12 5 16 10 8 0 91. 80 61 46 NO CETE 1 30.7 37.0 33.9 41.3 41.3 41.5 41.6 41.6 30.6 41.6 68 200001 35.0 44.2 45.5 46.9 46.9 47.2 47.2 47.2 39.9 41.9 42.9 46.5 66 16700| 35.0 66 16760| 35.0 19.9 41.9 42.9 44.2 45.5 45.5 46.9 46.9 47.2 47.2 47.2 47.2 47.2 47.2 47.2 47.2 34.7 41.9 42.9 44.2 45.5 46.5 46.9 46.9 47.2 47.2 47.2 35.0 140551 37.9 46.9 46.9 41.9 42.9 44.2 45.5 46.5 47.2 47.2 120001 35.0 39.9 46.9 46.9 47.2 47.2 47.2 47.2 68 102031 43.2 68 97071 43.2 50.8 53.3 56 . 1 57.8 59.7 61.1 61.4 61.4 61.7 61.7 61.7 61.7 61.7 61.7 61.7 5 1 . 8 61.7 61.7 61.7 61.7 61.7 61.7 53.8 56.1 57.8 59.7 61.1 61.4 01.4 61.7 80001 43.2 50.8 59.7 61.7 51.7 61.7 61.7 53.8 56.1 61.1 61.4 5 F 70001 43.2 50.8 56.1 57.9 59.7 61.4 61.7 61.7 61.7 51.7 61.7 61.7 61.7 53,6 SE 5 371 43.2 50.8 59.7 61.4 61.4 61.7 61.7 61.7 61.7 61.7 61.7 61.7 56.1 61.1 u E 45.31 47.2 51.2 52.5 54.1 55.4 57.8 58.4 60.4 61.7 52.0 63.4 63.9 62.4 62.4 62.4 62.4 62.4 63.7 42.4 62.4 63.7 63.7 39001 45.2 30001 46.5 65.0 53.8 59.1 64.7 60.7 65.0 65.0 65.0 65.0 65.7 66.3 56.3 55.1 54.1 60.4 62.4 64.4 66.0 66.3 66.3 56.3 66.3 66.3 6.5 24301 57.1 77.9 79.9 82.9 67.3 82.8 83.2 83.2 83.2 83.2 64.6 71.6 74.9 81.2 82.5 42.5 ij€ 20031 58.4 73.6 76.9 81.8 84.5 54.5 04.8 A4.8 65.1 95.1 18001 58.4 19301 57.4 94.8 84.2 υE 73.0 73.6 76.7 79.9 81.8 83.2 84.5 84.5 94.8 85.1 95.1 85.1 85.1 85.8 86.1 15001 17001 77.9 87.9 85.8 56 · 1 86.1 86.5 71.0 74.5 32.8 84.2 86.5 86.5 86.5 G F 71 61.4 95.4 95.7 96.4 i.F 17071 61.7 75.2 77.2 84.8 89.4 91.1 43.1 95.7 45.7 96.4 96.7 97.4 97.4 97.7 97.7 4001 62.0 HEDI 62.0 97.7 75.6 75.9 A5.5 96.7 97.4 98.3 99.7 O.F 79.5 £7.4 92.1 94.1 96.7 98.3 98.7 97.7 97.7 99.0 89.8 94.4 97.0 97.0 98.0 93.7 98.7 99.0 85.0 72.4 97.0 97.7 99.0 li F 7001 62.0 75.9 19.9 95.3 87. 1 92.4 34.4 97.7 98.0 98.7 98.7 99.0 92.4 95.8 98.0 98.7 4. € 1001 62.0 75.9 77.9 P5.3 87.8 02.4 94.4 97.0 97.0 97.7 97.7 98.0 98.7 98.7 99.0 99.0 4031 62.0 7001 62.0 2001 62.0 99.0 tı E 75.9 77.9 97.C 97.7 97.7 98.5 99.7 98.7 99.0 85.8 87.8 72.4 94.4 75.9 75.9 72.2 89.5 92.4 97.C 98.7 99.0 ыE 85.5 94.4 97.0 97.7 37.7 98.0 98.7 97.0 98.3 1001 62. 45.4 87.4 92.4 94.4 97.3 97.7 99.3 99.3 99.7 100.0 nl 62.0 G.F. 75.9 77.9 35.3 89.3 92.4 94.4 97.0 97.0 27.7 97.7 98.3 99.3 99.3 99.7 100.0

SLOGAL CLIMATOLOGY BRANCH USAFLTAC AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURPENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

JA	FION N	IC MPCR:	22.133	2 1 1 1 1 1	ON NAME:	· ··ORB	EM 2K U2:	٠×				4140W		DRU: 78	(LST1:	ALL	
												*****	-				
	ING								ITY IN 1					• • • • • • • •			
11		61	58	GE	GE	GE	G5	GE	GE	GΕ	GΕ	ΘE	GE	GE	GE	GE	GE
FLE		160	ავ	ຄຸງ	67	43	40	32	2.4	27	16		13	9	5	4	C
• • •	• • • • •	• • • • • •	• • • • • •	• • • • • •	• • • • • • •	• • • • • •	• • • • • • •	• • • • • •	• • • • • • •	• • • • • • •	• • • • • •		• • • • • • •	• • • • • •	• • • • • •	• • • • • •	• • • • • •
		·				•	74 0)		70 3	70 0	39.0	39.1	39.3	39.3	20 -	• • • •
<i>y</i> (EIL I	27.1	31.0	32.1	33.3	34.0	36.0	36.7	37.6	38.2	38.8	37.0	34.1	34 • 3	34.3	39.3	39.4
r :	rancal	31.4	35.6	37.1	36.4	39.8	41.7	42.5	43.5	44.1	44.8	44.9	45.1	45.3	45.3	45.3	45.4
	80001		35.8	37.1	38.4	39.3	41.7	42.5	43.5	44-1	44.8	44.9	45.1	45.3	45.3	45.3	45.4
	160001		35.6	37.1	38.4	39.8	41.7	42.5	43.5	44.1	44.8	44.7	45.1	45.3	45.3	45.3	45.4
	147531		35.8	37.1	38.4	37.8	41.7	42.5	43.5	44.1	44.8	44.9	45.1	45.3	45.3	45.3	45.4
	121031		35.6	37.1	38.4	39.9	41.7	42.5	43.5	44.2	44.8	44.0	45.2	45.3	45.3	45.4	45.4
ι	11 031	344	33.5	3 / • 1	38 • 4	37.7	41.7	42.3	43.3	44.2	44.6	,,,,	43.2	4313	43.3	47.4	43,4
E 1	1:003	39.5	45.6	47.4	49.3	51.4	54.0	55.1	56.6	57.5	58.3	50.4	58.7	58.8	58.9	58.9	59.0
E	90001	39.5	45.6	47.4	49.3	51.4	54.0	55.1	56.6	57.5	58.3	50.4	58.7	58.9	58.9	58.9	59.0
	60.001		45.6	47.4	49.3	51.4	54.0	55.1	56.6	57.5	58.3	5 9 . 4	58.7	58.8	58.9	58.9	59.0
	70001		45.6	47.4	49.3	51.4	54.0	55.1	56.6	57.5	58.3	50.4	58.7	58.8	58.9	58.9	59.0
	6100		45.6	47.4	49.3	51.4	54.0	55.1	56.6	57.5	58.3	50.4	58.7	59.8	58.9	58.9	59.0
		3	43.0	***	****	27.4	3440	3,	30.0	31.	,0,0			3,,,	3.007	3007	
E.	50001	39.8	45.9	47.7	49.6	51.8	54.4	55.5	57.0	57.9	58.7	50.8	52.1	59.2	59.3	59.3	59.3
3	45001	40.0	46.1	48.3	49.9	52.1	54.7	55.8	57.3	59.3	59.0	59.1	59.4	59.5	59.6	59.6	59.7
E	4 1001	41.3	47.8	49.6	51.5	53.8	56.5	57.6	59.1	60.1	60.9	61.7	61.3	61.4	61.5	61.5	61.5
		41.7	48.2	57.0	52.3	54.3	57.3	58.0	59.5	60.5	61.3	61.4	61.7	61.8	61.9	61.9	62.0
E	3 '46 [42.9	49.5	51.3	53.3	55.6	58.3	59.4	60.9	61.9	62.7	67.R	63.1	63.2	63.3	63.3	63.3
F	25601	51.5	6∏•6	62.9	65.8	69.8	71.9	73.4	75.4	76.8	77.7	77.9	78.2	78.4	78.4	78.5	78.5
E	27001	53.3	63.6	65.1	68.1	71.2	74.4	75.9	77.9	79,4	80.2	80.4	90.6	80.9	81.0	81.0	81.0
Ε	18001	54.5	50.	(a.) ₹	12.2	72.3	75.5	77.0	79.0	82.5	°1.3	51.5	91.9	82.3	82.1	82.1	82.2
£	15.01	55.5	66.0	59.3	71.3	74.4	11.7	79.2	81.3	82.8	83.6	33.8	84.1	84.3	94.3	34.4	84.4
E.	10001	59.2	7) . 6	7 7 . 5	77.5	81.6	85.8	88.0	91.6	93.5	94.8	95.1	95.7	96.0	96.1	96.2	96.3
٢		58 • 3	71.G	74.5	78 • 1	82.3	96.3	88.5	92.1	94.1	95.4	9 ° . 7	96.2	96.5	96.6	96.7	96.8
Ε		58.5	7:.2	74.2	78.4	82.6	40.6	88.9	92.5	94.4	95.7	95.3	96.5	96.9	97.3	97.0	97.2
٠.		25.2	71.4	74.4	76.5	82.0	8 to 8	89.1	92.7	94.6	95.9	95.7	96.9	97.1	97.2	97.3	97.4
E		59.6	71.6	74.€	73.9	63.3	R 7.3	89.6	93.2	95.1	26.4	96.7	97.3	97.6	97.7	97.8	97.9
F	v.C.J.	59.6	71.6	74.6	78 . 9	83.3	97.4	89.8	73.4	95.3	96.6	46.0	97.5	97.8	97.9	98.0	98.1
E	5001	54.6	71.6	14.6	789	87.3	87.4	89.8	93.4	95.3	96.6	95.7	97.5	97.8	97.9	98.0	98.1
r.																	
		54.8	71.8	74.3	7).1	83.5	27.6	90.0	93.6	95.5	96.9	97.7	97.7	98.0	98 - 1	98.2	98.3
£		5 9 . P	71.8	74.5	79 . 1	83.5	97.6	90.0	93.6	95.5	96.5	97.2	97.7	98.0	98 • 1	98.2	98.3
Ē		52.5	71.6	74.5	79.1	81.5	27.6	93.0	93.6	95.5	96.9	97.7	97.8	98.7	99.0	99.1	99.2
f	11.3	2 u • ū	71.8	74.8	79 - 1	81.5	37.6	90.0	93.6	45.5	96.9	97.3	97.8	98.7	99.2	99.4	99.9
E	-2.1	53.8	71.8	74.3	79.1	83.5	87.6	99.5	93.6	95.5	96.9	97.2	57.8	98.7	99.2	99.4	100.0
																	_

GLOBAL CLIMATOLOGY ERANCH USAFETAC AIR "FATHER SERVICE/MAC

PENCENTAGE FREQUENCY OF OCCURRENCE OF CFILING VENSUS VISIBILITY FROM HOURLY OUSERVATIONS

		-	221133									MONTH	: APR		(LST):	0000-02	00
	LIMG	• • • • • •	• • • • • •	• • • • • • •	• • • • • • •	• • • • • • •				HUNDREDS			• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	•••••
	N 1	51	GE	68	GΕ	GΕ	GE	GE	GΕ	GE	GE .	5£	51	GE	GE	GE	GE
FE	LT 1	160	90	80	60	4.8	40	3 2	2.4	2.3	16	1.7	1 L	8	5	4	c
• • •	• • • • • •	• • • • • •	• • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	••••••	• • • • • • •	•••••	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	•••••
N 7	CEIL 1	31.7	37.3	30.0	30.7	39.7	38+7	38.7	39.1	39.1	39.1	37.1	39.1	39.1	39.1	39.1	39 • 1
GΕ	200001	33.5	39.1	39.6	40.5	47.5	40.5	40.5	40.6	40.9	47.8	47.3	40.8	40.8	4 D . 8	47.8	40.8
UF	180001	33.5	39.1	37.8	40.5	40.5	40.5	49.5	43. 6	40.8	40.8	40.3	40.8	40.8	8.CP	47.8	40.8
しも	160001	33.5	39.1	30.8	40.5	43.5	40.5	47.5	47.8	47.8	40.8	47.8	43.8	43.8	43.8	40.8	44.6
65	147031	33.5	79.1	39.3	45.5	40.5	40.5	40.5	40.8	40.5	43.8	47.4	40.8	40.9	43.8	40.P	40.8
üĘ	121004	33.5	39.1	39.8	40.5	40.5	40.5	47.5	40.8	40.9	43.8	47.9	47.8	43.8	40.8	40.8	40.6
r, F	100001	43.C	50.4	51.6	52.8	53.2	53.2	53.2	53.5	53.5	53.5	53.5	53.5	53.9	53.9	53.9	53.9
GE	90001		50.4	51.5	52.8	53.2	53.2	53.2	53.5	53.5	53.5	57.5	53.5	53.9	c 3 . 9	53.9	53.9
6 E	80001		50.4	51.8	52.8	53.2	53.2	53.2	53.5	53.5	53.5	5 ? . 5	53.5	53.9	53.9	53.9	53.9
6.5	7:531		5 J. 4	51.8	52.8	53.2	53.2	53.2	53.5	53.5	53.5	53.5	53.5	53.7	53.9	53.9	53.9
GΕ	61 001		5 3.4	51.8	52.8	53.2	53.2	53.2	53.5	53.5	53.5	57.5	53.5	53.9	53.9	53.9	53.9
6.5	50001		50.4	51.8	52.8	53.2	53.2	53.2	53.5	53.5	53.5	53.5	53.5	53.9	53.9	53.9	53.9
U.E.	45001		52.1	53.5	54 + 6	54.9	54.9	54.9	55.3	55.3	55.3	55.3	55.3	55.6	55.6	55.6	55.6
6.6	4000}		55.6	57.0	58 - 1	58.5	58 • 5	58 • 5	58.8	59.2	59.2	59.2	59.2	59.5	59.5	59.5	59.5
6 E	35.53 3000 l		57.3	58.5	59 - 5	59.9	59.9	59.9	60.2	03.7	60.9	دن•	63.9	61.3	61.3	61.3	61.3
ĿĘ	31. (15)	5/	59.2	6').6	61.6	62.0	D • Se	62.0	62.5	03.0	63.C	63.7	63.3	63.4	63.4	63.4	63.4
), r	25601	50.9	76.8	12.2	73.9	74.3	74 . 6	74.6	75.7	76.8	76.8	75.9	76.8	77.1	77.1	77.1	77.1
6 E	arorl	61.6	72.9	74.3	76 • 1	76.4	76 · 8	76.8	77.8	79.2	79.2	77.2	79.2	79.6	79.6	79.6	79.6
CF	Inda	67.7	74.3	75.7	77.5	77.8	78 - 2	78 • 2	79.2	8J.6	80.6	87.6	87.6	81.0	R1.0	81.0	81.C
CE	15,001		75.7	77.1	7ۥ9	79.2	79.6	79.6	83.6	82.0	02.C	97.7	82.J	82.4	92.4	82.4	82.4
G F.	12071	68.7	84.9	46.6	99.4	91.5	91.9	92.6	94.4	96.5	ae•8	97.	97.2	97.5	97.5	97.5	97.5
6,5	10001	6 7	84.9	n b • 6	34.4	91.5	91.9	92.6	74.4	96.5	96.8	97.2	97.2	97.5	97.5	97.5	97.5
6 E		62.7	A4.9	86.00	89.4	91.5	91.9	92.6	94.4	96.5	76.8	97.2	97.2	97.5	97.5	97.5	97.5
6.5		69.0	95.2	87.0	29.6	91.9	92.3	93.0	94.7	96.8	97.2	97.5	97.5	97.9	97.9	97.9	97.9
ÜĒ		62.7	86.3	88.3	90.8	93.1	93.7	94.4	96.5	98.6	98.9	99.3	99.3	99.6	99.6	99.6	99.6
υE		69.7	86.3	88.0	90.8	93.J	93.7	74.4	76.5	98.6	98.5	90.1	99.3	99.6	99.6	99.6	99.6
υE	Fort	69.7	36.3	0.2.2	90.8	93.0	93.7	94.4	n	00 (20.0	97.3	99.3	99.6	00 (99.6	99.6
G E		69.7	96.3	88.0					76.5	98.6	79.9				99.6		
U.F		69.7	86.3	48.°	91.2	93.3	94.0	94.7	96.8	98.9	99.7	97.6	39.6	100.0	100.0	100.0	100.0
-			86.3	48.	91.2	93.3	74.0	94.7	96 - 8	98.9	79.3	92.6	99.6	130.0	100.0	100.0	100.0
うこ して		69.7	86.3	89.44 68.43	91.2	93.3 93.3	94.0 94.0	94.7 94.7	76.6	98.9	99.3	99.5	99.6	100.0	100.0	100.0	100.0
U I	.00)	4 - 1	20+2	p # + 3	41.5	73.3	74.0	74.1	96.8	98.7	99.3	44.0	99.6	100.0	100.0	100.0	100.0
üξ	21	69.7	36.3	89.0	91.2	93.3	94.0	94.7	96.8	98.9	39.3	99.5	79.6	100.0	100.0	100.0	100.0

GEOBAL CLIMATOLOGY BRANCH ATR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS "ISIBILITY FROM FOURLY OBSERVATIONS

STATION NUMBER: 221130 STATION NAME: MURMANSK USSR

PEPIOD OF PECORD: 78-87 MONTH: APR HOURS (LST): 0300-0500 VISIBILITY IN HUNDREDS OF METERS CEILING GF BC IN | 6T FEET | 167 GE G C G E 3 2 GE 24 GE 20 GE 1.7 GF GE GE 6.11 4 4 40 • • • • • • • • • • • • NO CETE 1 27.5 31.6 32.3 33.3 33.3 34.0 34.4 34.4 34.4 34.4 34.4 34.4 34.4 SF 200001 29.9 32.€ 74 - 4 25.7 34.7 35.7 36.4 36.8 36 . A 36.4 35.8 36 . 8 36.8 36.8 34.0 34.0 34.0 GE 187001 29.9 GE 162501 29.9 32.6 32.6 34.4 34.7 35.7 35.7 36.8 36.8 36.5 35 • 7 35 • 7 36 • 4 36 • 4 36.8 36.8 36.8 36.8 36.8 36.8 36.8 36.6 36.8 36 . 8 36.8 36.8 36.8 36.9 36 . 8 35.7 35.7 36.4 36.8 36 • 8 36 • 8 36.8 36.8 36.8 36.8 GE 127801 29.9 32.€ 54.0 34 . 4 34.7 35.7 35.7 36.4 36.8 36.8 36.8 GE inched 39.5 42.6 49.6 44.7 45.7 46.4 48.1 49.5 49.8 49.8 49.3 49.8 90001 39.5 UF UF 42.6 44.7 45.7 48.5 48.5 49.8 49.8 49.8 40.9 49.8 46.4 48.1 49.5 49.8 49.8 49.8 49.8 80001 39.5 7001 39.5 42.6 44.7 49.5 45.7 46.4 49.8 49.8 49.8 49.8 45.7 49.8 49.B 46.4 48.1 48.5 49.8 49.9 49.8 49.8 49.8 G€ 60001 39.9 46.7 48.5 50.2 50.2 50.2 50.2 50.2 50.2 5700| 40.5 4500| 41.2 4600| 45.7 5 E 43.6 45.7 46.7 47.4 49.5 50.5 50.9 50.9 50.9 50.9 50.9 50.9 50.9 50.9 C.E. 46.7 47.8 55.3 48.5 54.3 51.5 57.4 51.9 51.9 57.7 51.9 57.7 54.8 44.7 50.2 50.5 51.7 51.9 57.7 51.9 51.9 51.9 50.2 56.4 57.7 58.8 57.7 58.8 56.0 57.7 úξ 35-31 46.4 51.2 53.2 54.3 55.0 58.4 58.8 58.8 51.9 37631 47.1 59.5 55.3 55.7 57. 2 58.1 59.1 59.5 59.5 52.5 59.5 25071 56.4 64.9 67.4 ŭ€ CE 69.1 69.8 72.5 73.9 74.2 75.3 72.9 74.6 74.5 74.9 74.9 74.9 74.9 74.9 77.8 2000| 57.4 48.1| 59.1 66.0 70.1 73.9 74.9 75.6 75.5 15.5 75.9 78.4 75.9 75.9 78.4 75.9 ιŧ 1.81 77.4 72.5 75.9 76.3 77.0 77.3 77.7 78.0 78.7 79.3 78.7 79.4 79.0 76•4 79•0 15101 59.5 68.7 71.1 73.2 73.9 76.6 78.4 79.0 78.0 79.0 79.0 12011 53.9 6 F 78.4 61.4 84.2 92.4 94.8 80.1 87.5 83.2 17301 64.6 79.L 93.1 84.9 86.9 90.4 95.2 75.5 95.5 95.5 95.5 95.5 9.31 65.6 79.4 80.1 85.2 87.6 91.1 92.8 93.5 96.9 96.2 96.6 97.3 96.6 97.3 94.2 95.5 96.6 96.6 96.6 C.F. P8.3 91.8 94.8 96.2 7551 66.0 9.0 8 3 . 8 89.3 89.7 P6.9 92.8 94.5 95.9 17.3 97.9 97.9 úΕ 74.8 96.2 97.6 98.3 98.3 78.6 98.6 98.6 98.6 98.6 6.5 1001 65.0 31.1 1.4 .2 89.7 93.1 94.8 96.2 97.6 98.3 48.3 98.6 98.6 98.6 95.6 98.6 4001 66.0 91.1 61.1 84.2 87.3 87.3 59.7 89.7 93.1 93.1 94.8 96.6 97.9 9.80 98.6 99.0 99.C 99.0 99.0 99.0 65 96.6 98.6 94.8 97.9 99.0 99.3 29.0 99.0 99.0 ÚΕ 2.01 66.3 01.4 54.5 87.6 97.3 99.3 99.7 99.3 99.7 99.7 99.7 1001 66.3 41.4 99.0 84.5 47.6 90.0 93.5 95.2 96.9 98.3 99.7 99.7 99.7 100.0 Cl 66.3 81.4 84.5 87.6 90.0 23.5 95.2 96.9 98.3 99.0 39.1 79.3 99.7 99.7 99.7 100.0

GLOWAL CLIMATOLOGY RPANCH LSAFETAC AIR WEATHER SERVICE/MAC

PEHCENTAGE FREQUENCY OF OCCURPENCE OF CFILING VFRSUS VISIBILITY FROM HOURLY OBSERVATIONS

STATION NUMBER:	221130	STATION NAME:	MURMANSK USSR

514	TION N	UMPER:	221137	STATI	ON NAME:	MURM	ANSK US	SR				PERIOD	OF REC	DPD: 78	-87		
													: APR		(LST):		
	LIN6	• • • • • •	• • • • • • • •	•••••	• • • • • • • •	• • • • • •				HUNDRED			• • • • • • •	• • • • • • •	• • • • • •	• • • • • • •	•••••••
		6.1	GE	GΕ	GΕ	GE	65	GE	GE.	5E	5 6 5	, c.E	51	GE	GE	GE	GE
	ET I	160	9 ü	30	.67	4 8	40	32	24	20	16	17	13	8	- 5	4	0
N O	CEIL !	17.0	18.3	19.7	73.8	21.5	22.8	23.5	24.9	25.6	26.0	24.€	26.0	26.0	26.0	26 . 0	26.0
	20,201		23.5	24.9	£`U • J	26.6	28.0	28.7	30.1	30 · 8	31 - 1	31.1	31.1	31.1	31.1	31.1	31.1
	18,000		23.5	4.9	26.3	26.6	28.0	28.7	30.1	30.8	71.1	31.1	31 - 1	31.1	31.1	31,1	31.1
	160001		23.5	24.9	20.0	25.6	26. C	28.7	30.1	30.8	31.1	31.1	31.1	31.1	31.1	31.1	31 • 1
	140001		23.5	24.9	26 • 3	26.6	28. C	28.7	30.1	30 • A	31.1	31.1	31.1	31.1	31.1	31.1	31.1
5 (15,001	21.4	23.5	-4.7	20.0	24.6	28.3	29.7	30.1	30.8	₹1.1	31.1	51.1	31.1	31.1	31.1	31.1
6 F	160001	31.1	35.6	37.4	30.4	39.8	41.9	42.6	44.3	45.3	45.7	46.3	45.3	46.3	46.3	46.C	46.0
GE		31.1	35.6	37.4	34.4	37.8	41.9	42.6	44.3	45.3	45.7	46.0	46.0	46.7	46.3	46.0	46.0
6 F		31.1	35.6	37.4	38.4	39.8	41.9	42.6	44.3	45.3	45.7	46.3	46.C	46.0	46.3	46.0	46.0
üε	70001		35.6	3 7 .4	53.4	39.8	41.9	42.6	44.3	45.3	45.7	44.3	44.0	45.0	46.0	46.0	46.D
úΕ		31.1	35.6	37.4	3d • 4	39.8	41.9	42.6	44.3	45.3	45.7	46.0	44.3	46.0	46.0	46.0	46.0
GE	1111	31.8	36.3	38.1	*9.1	40.5	42.6	43.3	45.3	46.3	46.4	45.7	46.7	46.7	46.7	46.7	46.7
6 E		32.2	37.3	39.9	39.3	41.2	43.3	43.9	45.7	46.7	47.1	47.4	47.4	47.4	47.4	47.4	47.4
L.E.		34.3	77.1	47.8	42.2	43.6	45.7	46.4	48.1	49.1	49.5	цо в	49.3	49.B	49.8	49.8	49.8
3.0		34.6	39.4	91.2	42.0	43.9	46.3	46.7	48.4	49.5	49.8	52.2	50.2	50.2	10.2	50.2	50.2
GE		34.7	39.8	41.9	43.3	44.6	47.1	47.8	49.5	50.5	50.9	51.2	51.2	51.2	51.2	51.2	51.6
•			,,,,,		.555												
6 E	25001	49.1	55.7	50.5	61.2	63.3	66.1	67.1	69.6	70.6	71.3	71.6	72.0	72.0	72.0	72.0	72.3
C: F	20001	50.9	57.8	63.6	63.7	65.7	68.5	69.6	72.0	73.0	73.7	74.0	74.4	74.4	74.4	74.4	74.7
U.E.	18501	51.2	58.5	61.2	64.4	66.4	69.2	73.2	72.7	73.7	74.4	74.7	75.1	75.1	75.1	75.1	75.4
úΕ	1500 l	51.9	59.2	61.9	65.1	67.1	70.2	71.3	73.7	74.7	75.4	75.e	76.1	76.1	76.1	76.1	76.5
υE	12001	56.7	67.1	77.6	75 • 4	14.5	53.4	85.1	89.2	90.7	92.4	93.1	73.4	93.4	93.4	93.4	94.1
L E	10001	59.1	68.5	72.,	76.5	77.9	84.8	86.5	93.0	97.4	94.1	94.8	95.2	25.2	95.2	95.2	95.8
ČΕ		58.1	68.9	72.3	77.2	81.6	95.5	87.2	93.7	93.1	94.8	95.5	95.8	95.8	95.8	95.8	96.5
(, r	8 10 [58.1	68.9	77.3	71.2	47.6	35.5	97.2	91.0	93.4	95.2	95.0	96.2	96.2	96.2	96.2	96.9
G F	7201	58.1	69.2	12.7	11.5	81.3	A6.2	87.9	91.7	94.1	95.8	94.5	96.9	96.9	96.9	96.9	97.6
CF	6.071	E. 9 . 2	54.2	72.7	77.5	01.0	86.2	87.9	91.7	94.1	95.6	95.5	95.9	96.9	96.9	96.9	97.6
υE	دوجء	58.1	69.6	73.0	77.9	81.5	86.5	89.2	92.0	94.5	96.2	96.0	97.2	97.2	97.2	97.2	97.9
ŏ €		58.1	69.6	73.0	71.9	01.3	36.5	88.2	92.0	94.5	96.2	96.0	97.2	97.2	97.2	97.2	97.9
L F.		58.1	69.6	73.3	77.9	81.3	86.5	88 • 2	92.0	94.5	96.2	94.0	97.2	97.2	97.2	97.2	97.9
ų E		58.1	69.6	73	77.9	01.3	36.5	88.2	92.0	94.5	76.2	96.0	97.2	98.3	98.3	98.3	99.0
G.E		53.1	69.6	73.5	77.9	A1.3	A6.5	88.2	92.0	94.5	96.2	96.9	21.2	98.3	98.6	98.6	100.0
LΕ	a l	58.1	69.6	73.5	77.9	81.3	16.5	89.2	92.0	94.5	96.2	91.9	97.2	98.3	98.6	98.6	100.0
	., .		5														

GLUEAL CLIMATOLOGY BRANCH USAFLTAC AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CFILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 221130 STATION NAME: MURHANSK USSR PERIOD OF RECORD: 78-87 VISIBILITY IN HUNDREDS OF METERS

GE GE GE GE GF "" CEILING
IN | GT
FEET | 160 G.F. GE GE GE 32 24 20 GE 1.7 9:1 8.0 6.3 4.9 40 2 3 16 10 8 5 0 NO CEIL | 22.7 26.8 29.6 3C • 6 31.6 32.0 33.3 33.3 33.3 33.7 33.7 33.7 33.7 33.7 26.1 28.5 42.3 GE condul 28.5 33.3 36.4 37.5 38.8 40.2 41.9 41.9 41.9 42.3 42.3 42.3 42.3 32.6 35 . 4 GE 180001 28.5 GE 160001 28.5 40.2 41.9 41.9 41.9 42.3 42.3 42.3 42.3 32.6 35 . 4 37.5 38.8 42.3 36.4 32.6 33.3 38.8 41.9 42.3 35 . 4 36.4 37.5 40.2 41.9 41.9 42.3 42.3 41.9 GE 140001 23.5 33.3 36.4 37.5 40.2 41.9 42.3 42.3 42.3 42.3 35.4 42.3 42.3 42.3 GE 120001 28.5 GE 100001 39.5 45.7 57.4 57.4 49.5 50.9 52.2 53.6 55.0 56.7 57.0 57.0 57.4 57.4 57.4 47.1 57.0 57.0 57.0 90001 39.5 45.7 53.6 53.6 57.4 57.4 57.4 57.4 ĿΕ. 49.5 50.9 52.2 55.0 56.7 57.4 57.4 87001 39.5 45.7 47.1 49.5 50.9 52.2 55.0 56.7 57.0 57.4 57.4 57.4 57.0 57.0 57.0 57.0 ůF 70001 39.5 45.7 47.1 44.5 5:1.9 52.2 53.6 55.0 56.7 57.4 57.4 57.4 57.4 56.7 ÚΕ 60001 39.5 49.5 50.9 57.4 45.7 52.2 50001 39.5 45.7 47.1 49.5 52.2 53.6 56.7 57.0 57.9 57.0 50.9 45.7 53.6 56.0 55.0 57.4 56.7 59.1 GΕ 45:01 39.5 47.1 50.9 52.2 57.0 57.4 57.4 57.4 57.4 57.4 40001 41.2 53.3 49.5 59.5 50.8 59.8 59.8 59.8 59.8 51.9 59.5 GΕ 54.6 40.8 3500| 41.6 3000| 42.3 59.8 60.5 53.6 57.7 59.5 59.8 60.1 60.1 60.1 60.1 60.1 ЬE 49.1 50.5 52.9 54.3 55. 7 57.0 58.4 60.1 60.5 60.8 6J.8 60.8 60.8 60.8 U.E 69.8 77.7 25001 54.3 62.9 64.3 67.3 76.6 77.3 77.3 78.1 78.0 71.1 72.5 74.2 74.0 78.0 20001 54.6 18001 55.0 67.7 73.5 73.9 63.2 64.6 70.4 72.2 75.3 77.7 78.0 78.7 79.0 79.0 79.0 79.0 78.4 64.9 75.6 7 P . 7 79.4 () E 63.6 70.8 72.5 78.7 79.0 79.4 79.4 79.4 79.7 15001 55.3 65.6 60.7 71.8 73.9 75.3 77.0 80.4 80.4 80.8 81.1 91.1 81.1 81.1 64.3 L F 71.8 42.8 93.5 80.1 C.F. 10001 59.5 77.4 72.2 76 • 6 87.8 83.5 85.2 88.0 93.8 94.5 94.5 95.5 95.9 95.9 95.9 95.9 95.5 96.6 6E 9001 59.8 FLC1 59.8 71.1 71.1 72.9 72.9 77.3 81.4 84.2 85.9 88.7 94.5 95.5 96.9 97.6 96.9 96.9 96.9 77 . 3 81.6 84.5 86.3 89.0 95.2 96.2 96.2 82.1 82.5 96.9 7401 68.1 77.7 84.9 89.3 95.9 96.9 97.9 98.3 7 . 49 7 . A P 98. 1 6 E 6001 60.1 76.5 99.0 99.3 99.3 99.3 86.9 89.7 97.9 99.3 85.2 96.6 71.8 78 . J 85.2 86.9 98.3 90.5 96.6 99.3 4001 60.1 3001 60.1 73.5 73.5 82.5 82.5 99.3 99.7 99.7 99.7 G F 71.8 78 • C 85.2 86.9 89.7 96.6 98.3 98.3 99.7 98.3 99.7 89.7 99.3 99.7 GΕ 71.8 78 . 0 85.2 86.9 96.6 98.3 2001 00.1 72.5 78. . 86.9 98.3 100.0 100.0 100.0 96.6 55.2 GΕ 1601 65.1 76.0 62.5 85.2 86.9 89.7 94.3 99.3 100.0 100.0 100.0 100.0 CE 73.5 01 60-1 R9.7 71.8 78.0 62.5 95.2 86.9 96.6 98.3 VR. 1 99.3 100.0 100.0 100.0 100.0

GLORAL CLIMATOLOGY ERANCH USAFETAC AIR WLATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VFRSUS VISIBILITY FROM FOURLY OBSERVATIONS

STATION NUMBE										HOWIF	UF PEC	FOURS	0.511:	1205-14	
CEILING	• • • • • • • • •		• • • • • • • •	• • • • • •	• • • • • • •	VISIBIL			OF ME	* * * * * * * * * * * * * * * * * * *	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	•••••
IN 1 GT	GE	G f	L٤	G.E	33	GE	GE	GE	GE	CE.	GE	GE	۵E	66	G₹
FEET 1 16		83	60	48	40	32	24	2.0	16	1.7	10	8	5	.,, 4	0
	• • • • • • • •														
NO CEIL 26.	4 28.2	29.6	51.0	31.0	31.3	31.3	31.3	31.3	34+3	31.3	31.3	31.3	31.3	31.3	31.3
GE 200001 34.	2 36.3	37.7	79 • 1	39.1	39,4	39.8	39.8	39.8	39.8	30.8	39 . B	39.9	39.8	39.8	39.8
6E 18 001 34.	2 36.3	37.7	39.1	39.1	39.4	39 . A	39.8	39.8	39.8	39.8	59.8	39.8	39.8	39.A	39.8
GE 167UUL 34.	2 36.3	37.7	39 • 1	39.i	39.4	30.8	39. B	39.8	39.8	57.4	39.8	39.8	39.8	39.8	39.8
GE 140001 34.	2 30+3	37.7	39.1	39.1	39.4	39.8	39.8	39.8	39.8	30.8	39.8	39.8	39.8	39.8	39.8
GE 120001 34.		37.7	29.1	39.1	39.4	39.8	39.8	39.8	39.8	30.8	37.8	37.8	39.8	39.8	39.8
05 1J7J0∤ 45.	•	50.4	51.8	51.8	52. R	53.5	54.2	54.6	54.6	50.6	54.6	54.6	54.6	54.6	54.6
5E 9568] 45.	-	57.4	51.8	51.8	52.8	53.5	54.2	54.6	54.6	54.4	54.6	54.6	54.6	54.6	54.6
UE 68391 45∙	-	52.4	51.8	51.8	52.8	53.5	54.2	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6
GF 70001 45.		57.4	51.8	51.8	52.8	53.5	54.2	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6
6E 68831 45.	1 48.9	50.4	51.8	51.6	52. A	53.5	54 • 2	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6
SE 50001 46.	1 50.0	51.4	\$2.8	52.8	53.9	54 • 6	55.3	55.6	55.6	5°,6	55.6	55.6	55.0	55.6	55.6
SE 45301 46.		51.4	52.8	52.6	53.9	54 • 6	55.3	55.6	55 • 6	55.6	55.6	55.6	55.6	55.6	55.6
GE 47001 48.		53.9	55.3	55.3	56.3	57.0	57.7	58.1	58 - 1	50.1	58.1	58.1	58.1	58.1	56.1
GF 35001 48.		54.2	55.6	55.6	56.7	57.4	58.1	58.5	58.5	5 6 6	58.5	58 • 5	58.5	58.5	58.5
GE 30001 48.		54.0	50.0	56.3	57.0	57.7	58.5	38 . 8	58.8	50.8	58.8	58.6	58.8	59.8	58.8
	,,,,,	34.0	30.0	30.3	,		,,,,	30.0	7.0.0	3		3.7 • 0		27.0	30.8
6E 25.11 61.	3 67.3	68.7	70.4	70.4	72.5	74.3	75.4	16.8	76 . €	76.0	76.8	76.9	76.8	76.8	76.8
GE 10001 61.	3 67.3	68.7	73.4	70.4	72.5	74.3	75.4	76.8	76.8	71 P	76.8	76.9	76.8	76.8	76.8
6E 15001 62.	3 / 3.3	69.7	71.5	71.5	73.6	75.4	76.4	77.8	77.2	77.A	77.8	77.9	77.8	77.8	77.8
6E 15.171 63.	59.4	70.5	72.5	72.9	75.U	76 .8	77.8	79.2	79"	79.2	79.2	79.2	79.2	79.2	79.2
GE 12001 69.	r 70.5	87.5	84.5	85 - 2	ė8.7	91.2	93.3	95.4	96 . !	96.5	71.2	97.2	97.2	97.2	97.2
UF 10001 69.	4 75.9	81.0	84.9	85.6	89.4	91.9	94.0	96.1	97.2	97.2	27.9	97.3	97.9	97.9	97.4
5E 9001 69.		61.6	54.9	85.6	89.4	91.9	94.0	96.5	97.5	97.5	79.2	98.7	98.2	99.2	98.2
45 ACT 69.		61.3	85.2	85.9	89.8	92.3	94.4	96.3	97.9	97.9	28.6	98.6	98.6	99.6	98.6
UE 1001 69.		81.7	85.6	£6.3	70.1	92.6	95.1	97.9	98.9	0 4 0	97.6	99.6	99.6	99.6	99.6
(E 650) 69.		91.7	85.6	86.3	95.1	92.6	95.1	97.9	98.9	90.0	99.6	99.6	97.6	77.6	99.6
		,		nu • 3	704 1	72.0	, 2 . 1	7147	46.4	,	,,,,	77.0	77.0	,,,,	****
6E 5001 67.	7 74.6	8 7	85.6	n6.3	96.1	92.6	95.1	97.9	99.3	90.3	190.0	100.0	130.6	100.0	100.0
DE 4001 69.	7 74.6	61.7	85.6	86.3	95.1	92.6	95.1	97.7	99.3	99.3	100.0	100.0	100.0	100.0	100.0
DF 3071 69.	7 79.6	61.7	85.5	85.3	9G. i	92.6	75.1	47.9	99.3	99.3	199.6	100.0	100.0	100.0	100.0
SE 7. 91 69.	7 79.6	01.7	85.6	66.3	90.1	92.6	95.1	47.9	99.3	90.3	100.0	100.0	100.0	100.0	100.0
65 1331 6%	7 79+6	91.7	85.5	86.3	96.1	92.6	95.1	77.9	99.3	90.3	100.0	100.0	100.0	100.0	100.0
65 61 69.	7 79.6	H1.7	P5 • 6	e6.3	9C • 1	92.6	95.1	97.9	99.3	99.3	193.0	160.0	100.0	100.0	100.0

GLOBAL CLIMATOLOGY REANCE USAFETAC

PERCENTAGE FREQUENCY OF OCCURPENCE OF CELLING VERSUS VISIBILITY FROM HOWELY OBSERVATIONS

AIR WEATHER SERVICE/HAL
STATION NUMBER: 221135 STATION NAME: MUMMANSK USSR PERIOD OF RECORD: 78-67

			2 1 6 1 6	feld 15 Marti		ANSK USS	יינ				DELIOU	01 466	JED. 19	-01		
											MONTE			(LST1:		
IL ilio	• • • • • •		• • • • • • •		• • • • • • •				HUNDRED:			• • • • • • •	• • • • • •	• • • • • • •	• • • • • • •	•••••
	6.1	GE	GE	ьf	GE.	GE.	GE	GE.	υ. Εξ	GΕ	SE	1, §	GE	G E	5.8	GF.
	160	9	я:	40	40	4 9	3.2	2 4	20	16	12	1.J	9	5	4	a
					-									-		
CLIL	30.1	30.8	31.2	31.2	31.2	31.5	31.5	31.5	31.5	31.5	31.	11.5	31.5	31.5	31.5	31.5
207361	39.4	45.4	4 (j • 4	43.6	47.4	41.1	41.1	41.1	41.1	41.1	91.1	41.1	41.1	41.1	41.1	41.1
18 001	39.4	4 ; 4	45.5	40.6	40.8	41.1	41.1	41.1	41.1	41.1	9 1 . 1	41.1	41.1	41.1	41.1	41.1
163631	39.4	4 : 4	49.0	4.).8	47.4	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1
140001	79.4	40.4	u Diga	40.8	40.8	41.1	41.1	41.1	41.1	41.1	41	41.1	41.1	41.1	41.1	41.1
La val		40.4	4(***	43.8	43.0	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1
100001		£4.5	54.0	54.8	54.5	55.1	55.1	55.1		55.5	55.5	55.5	55.5	55.5	55.5	55.5
									55.5							
97131		54.5	5.4 .r	54.8	4.5	55.1	55.1	55.1	55+5	55.5	55.5	5 • 5	55.5	55.5	55.5	55.5
ยาปกไ		54.5	5.4.4	54 • 8	54.5	55.1	55.1	55.1	55.5	55.5	35.5	55 + 5	55.5	55.5	55.5	55.5
70061		54.5	5.4 an	54.8	54.8	55.1	55.1	55.1	. >5.5	55.5	5 ° °	55.5	55.5	55.5	55.5	55.5
67351	52.7	54.5	54.8	F4 • 6	54.5	55.1	55.1	55.1	55.5	5.5	55.5	55.5	55.5	55.5	55.5	£ 5 . £
5-071	54.1	55.6	56.2	56.2	56.2	56.8	56.8	56.8	57.2	67.2	57.2	51.2	57.2	57.2	57.2	57.2
45001	54.1	55.8	56.2	50.2	56.2	56.6	56.8	56.9	57.2	57.2	57.3	57.2	57.2	57.2	57.2	57.
10004	56.8	58.9	53.2	59.2	59.2	59.9	59.9	59.9	69.3	60.3	9 3	60.3	61.3	40.3	60.3	60.3
35 0.01		53.0	5.0	59.2	59.2	54.9	59.9	59.9	60.3	67.3	0.7 • 3	6).3	60.3	60.3	60.3	6C.3
3 001	57.9	59.9	67.5	6(5	67.5	61.U	61.0	61.0	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
25.061	72 (7, 7	~ 7	77.1	,,,	77 7	77 7	77 7		70.1	7	70. 1	70.1	70 1	78.1	76.1
		76.7	77	-	17.1	77.7	77.7	77.7	78.1	78 • 1	78.1	7 # • 1	78 - 1	78.1		
		77.5	79.3	79.8	77.8	60. B	87.8	80.8	61.2	A1.2	81.2	91.2	81.2	P1.2	81.2	81.2
: P (01		n C • 5	£ C • n	80.6	81.2	82.2	82.2	82.2	02.5	P2.5	4.1.5	6.2.5	82.5	62.5	82.5	82.5
15.04		8.1 • 4	£1.°	61.5	81.0	H2.9	82.9	92.9	83.2	93.2	4 7 ?	H 3 . 2	03.2	e 3 • 2	83.2	A 3 - 2
17. 3	r 3.7	9 1	9 1 · ·	67.1	93.2	95.2	95.2	95.2	97.3	97.9	97.7	91.9	97.9	98.3	98.3	c 8 • 3
11.404	r 5.6	50.0	52.1	92.8	91.4	95.9	95.9	95.9	97.9	98.€	99.6	98.6	98.6	99.1	99.0	99.0
9.91	A3.6	94.8	92.1	92.8	93.3	95.9	95.9	96.2	98.6	99.3	77.7	99.3	99.3	99.7	99.7	99.7
9101	6 ? . €	9.5.8	9.7	5 6	93.6	95.9	95.9	96.2	98.6	99.3	40.3	99.3	99.3	99.7	99.7	99.1
71-1	-7.9	51.1	62.6	93.2	94.2	26.2	96.2	96.6	99.3	99.7	99.7	99.7	97.7	100.0	100.0	100.0
6.004	R 1, 9	91.1	92.5	93.2	94.2	96.2	96.2	36.6	43.0	29.7	99.7	99.7	99.7	100.0	100.0	100-0
	£ 7. G	21.1	9.2 . 5	93.2	94.2	96.2	96.2	96.6	99.7	99.7	99.7	99.7	99.7	103.0	100.0	100.0
4 : 1 ;		91.1	92.5	97.2	94.2	96.2	96.2	96.6	99.0	99.7	99.7	99.7	99.7	10.0	100.0	100.0
7.5		91.1	97.5	93	94.2	96.2	76.2	96.6	99.0	99.7	30.7	99.7	99.7	100.0	100.0	100.0
: ::		51.1	62.5	93.	94.2	56.2			99. D	39.7	90.7	99.7	99.7	100.0	100.0	100.0
150		71.1	92.5	93.2	94.2	96.2	96.2 96.2	35.6	99.U 99.1		99.7					
. 1501	E 3. "	* 1 • 1	76.3	7312	74.2	40.4	70 46	90.6	94.1	99.7	44.7	99.7	99.7	100.0	100.0	100.0
0.1	93.9	71.1	92.5	93.0	94.2	96.2	,5.2	96.6	99.7	99.7	99.7	99.7	99.7	100.0	100.0	100-0

GLUPAL CLIMATOLOGY ERANCH USAFFTAC AIR WEATHER SERVICEZHAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

5 T V	110h M	MEER:	201130	2111	ON NAME:	MA.la	MNSK LS	S P					OF REC	-	-87 (LSI):	18an-2n	nr
		• • • • •	• • • • • • •	• • • • • •		• • • • • • •				HUNDREOS							
I		5.1	t-f	6 (C.F	6 E	65	GE	GF	GE	GL	(c)	6 r	GŁ	G٢	Gf	6F
FÉ			وو			4 &	4 6	32	7.4	้อย	16	12	6.1	9	5	- 4	2
14 T	CFIL 1	30.3	72.7	37.7	32.1	32.7	32.7	32.7	32.7	37.7	72 • 7	32.7	52.7	32.7	32 • 7	32.7	32.7
£ Ł	anneal.	3°.6	73.4	11.4	32.4	38.4	38.4	39.4	38.4	38.4	38.4	30.4	38.4	38.4	78.4	3 R . 4	38.4
0€	18. 501	30.6	78.4	18.4	30.4	58.4	38 • 4	38.4	38.4	38.4	38 . 4	30.4	73.4	38.4	34.4	38.4	38.4
U.F	16.001	35.6	35.4	58.4	78.4	35.4	38.4	39.4	38 • 4	38.4	38 . 4	30.4	34.4	38.4	38.4	38.4	38.4
S.F	140001	₹5.6	*F.4	{ F . 4	36.4	38.4	20.4	38.4	38.4	39.4	34.4	37.4	13.4	33.4	38.4	38.4	38.4
7.1	120101	25.€	?#•4	31.4	3E • 4	38.4	28. 4	38.4	38.4	38.4	3₽•4	3.0	39.4	38.4	18.4	39.4	36.4
υF	1:001	62.5	c. (, , 3	56.3	° 6 • 7	56.7	56.7	57.3	57.0	57.3	57.C	5:.0	57.0	57.0	57.0	57.0	57.0
or E	91 (1)	52.5	56.2	56.3	56.1	56 . 7	56.7	57.0	57.0	57.0	57.0	57.7	97.0	57.0	(۲۰ ء	57.0	57.0
CF	Fr 101	F 2.5	56.3	46.3	56.7	51.7	56.7	57.0	57.0	57.0	57.0	57.0	5.7 • D	57.0	57.J	57.0	57.0
ι f,	10001	12.1	56.3	56.7	50.7	56 • 7	56.7	57.0	57.0	57.7	57.0	57.7	57.6	57.3	57.0	57.0	57.0
i- E	(777)	52.°	11.3	56.3	56.7	56.7	56. 7	57.0	57.0	57.0	57.0	5	57.0	57.0	57.3	57.0	57.0
i. F	st with	52.5	16.3	56.3	56.7	56.7	56.7	57.0	57.0	57.0	57.0	57.7	57.0	57.0	£1.3	57.0	57.0
, E	41.2)	52.5	56.3	56.0	56.7	56.7	56.7	57.0	57.0	57.0	57.0	57.0	57.6	57.0	57.3	57.0	57.0
L.F	40:51	51.3	6.3.6	67.6	61.9	67.9	6C. 9	61.3	61.3	61.7	61.3	61.3	(1.5	61.3	61.3	61.3	€1.3
7. [35 471	56.3	60.€	62.5	€€.9	60.9	60.9	61.3	61.3	61.3	61.3	61.3	6.1 + 3	61.3	61.3	61.3	61.3
o f	37321	56.7	60.9	60.9	61.3	61.3	61.6	62.C	62.0	62.3	65.0	67.0	62.0	62.11	62.0	62.0	€2.0
u f	251	£ 2 . 7	75.0	76.1	77.5	77.5	78.2	78.9	17.2	79.9	79.9	77.9	79.9	79.9	79.9	79.9	79.9
5.1	2001	69.0	76.1	77.1	7E . 5	78.5	79.6	6J.3	8J.6	81.3	81.3	81.7	81.3	81.3	R1.3	81.3	81.3
, F	15111	62.7	76.6	17.0	79.2	79.2	AC. 3	81.0	81.3	62.0	2 • C	67.5	82.0	82.0	P2.0	82.0	82.0
1 6	15.00	71.1	76.2	19.2	80.6	80.6	81.7	82.4	82.7	03.5	83.5	97.5	23.5	83.5	°3.5	83.5	83.5
er i	17. 31	16.8	84.6	∪ 6 - 5	F8 • 7	8°•8	91.2	92.3	93.3	96.1	9.90	91.0	97.5	97.5	97.5	47.5	97.5
1.4	10:01	77.1	£5.	56.0	80.1	90.1	92.3	93.3	94.4	97.2	97.9	97.9	98.6	98.6	68.6	98.6	9.82
·. {	1001	77.5	-5.6	н7.	85.4	90.5	42.6	93.7	94.7	97.5	3.80	95.2	49.5	98.7	98,9	98.9	98.9
1	1.71	77.5	-5.6	ь7.	69.4	40.5	92.5	93.7	94.7	97.9	98.6	92.6	99.3	99.3	99.3	99.3	99.3
t, E	7. "1	77.5	F5.6	н7.,	87.4	90.5	93.0	94.0	95.i	99.2	95.9	9:0	₹9.6	99.6	99.6	99.6	99.6
t. E	5.01	77.5	95.6	н ₹ •1.	₽0•4	97.5	93.6	94.0	95.1	98.2	38.9	91.0	33.6	99.6	9.6	99.6	9.6
(†	5.001		35.6	h 7 .	80.4	911.5	93.J	94.0	95.1	98.3	79.3	92.1	100.0	133.0	172.0	107.0	100.0
	40.71		r h.t	1.7 . 1	89.4	97.5	93.0	24.7	95.1	95.2	99.3	90.5	100.0	100.0	100.0	100.0	100.0
0 F	7.51	77.°	25.6	1, 7	85.4	97.5	23.0	94.0	95.1	98.2	99.3	99.3	100.0	100.0	100.0	100.0	106.0
Ł	. 131		~ S • 6	Ł 7 ⋅ -	89.4	90.5	93.U	94.0	95.1	98.2	79.3	9"."	100.0	109.0	173.0	100.0	10.0
٥Ę	1 104	77.5	5 5 • 6	67.	P ∪ • 4	97.5	63. D	94.0	95.1	38.2	30.3	90.3	100.0	100.0	103.0	100.0	100.0
u.F	. 1	77.5	55.6	87.0	E0.4	90.5	43. L	94.0	95.1	98.2	99.3	90.3	100.0	133.3	100.0	100.0	100.0

GLUBAL CLIMATOLOGY HRANCH USAFLTAC ATR SEATHER SERVICE/MAG

PERCENTAGE FREQUENCY OF OCCURPENCE OF CFILING VERSUS VISIBILITY FROM HOURLY (0,+) (VATIONS

STATION NUMBER: 221130 STATION NAME: MURMANSK USSR

PESTOD OF BECORD: 78-87 MONTH: APR HOURS (LST): 2109-2300 VISIBILITY IN FUNDREDS OF METERS

UT GE GF GF GF CF CEILING GΕ IN | 61 FEET | 167 GE 2.4 9t 30 10 GE 32 GE S 90 1 16 4.6 4.3 G 60 34.6 34.6 14.6 NO CETE 1 31.8 23.6 5 3 . 0 34.5 34.6 34.6 74.6 34.6 33.9 95 200001 37.7 41.1 41.1 47.1 41.1 41.1 41.1 41.1 41.1 41.1 4 1. 1 40.4 41.1 6E 160831 37.7 6E 160901 37.7 CE 140001 37.7 41.1 41.1 41.1 41.1 41.1 4 3. 1 40.1 40.4 41.1 41.1 41.1 41.1 -1.1 4...1 40.1 40.1 40.4 41.1 41.1 41.1 41.1 41.1 41.1 41.1 41.1 41.1 41.1 41.1 41.1 41.1 41.1 47.1 43.4 41.1 41.1 6E 12000| 37.7 40.1 41.1 41.1 41.1 41.1 41.1 41.1 41.1 41.1 41.1 41.1 5 " • t. 47.5 57.5 5.7.5 57.5 GE 1 12671 49.3 55.1 56.8 56.3 56.8 57.2 57.5 57.5 57.5 1 700 FF 49.5 97201 49.3 80001 49.3 70001 49.3 60201 49.3 57.5 57.5 57.5 55.1 56.8 56.8 56.9 56.9 57.2 57.2 57.2 57.5 57.5 57.5 57.5 57.5 57.5 57.5 57.5 GF 54.5 50.0 56.8 55.1 57.5 57.5 57.5 57.5 54.5 56.8 57.5 57.5 57.5 υĖ 56 . 2 57.5 57.5 54.5 56 . 2 56.0 56.8 56.8 57.5 57.5 57.5 55.1 56.8 54.5 56.8 56.8 50.2 57381 47.7 45801 57.7 47631 52.7 57.9 58.9 61.6 58.6 59.6 52.6 56.6 45.5 56.3 57.2 57.9 57.9 58.2 58.6 58.6 58.6 50.6 51.3 57.7 57.7 56.5 57.2 58.9 59.5 59.E 59.6 62.3 59.6 62.3 59.6 62.3 59.6 62.3 58.2 59.2 62.0 50.6 62.3 62.3 G.F 61.6 61.6 62.7 67.0 50.6 60.3 12.7 62.7 62.3 S.F 5-1-9 61.6 62.3 62.3 62.7 63.0 63.0 63.0 63.0 25051 63.4 74.3 75.3 76.4 1. F 71.2 71.9 72.9 74.7 75.7 75.4 76.4 74.4 76.4 76.4 76.4 76.4 75.3 17.4 79.1 77.5 51.9 87.6 115 77.4 78.8 79.9 19.9 79.8 78.1 79.8 79.8 76.4 1980| 68.8 1980| 68.2 1880| 71.9 87.8 82.5 81.9 83.6 91.8 83.6 81.8 81.8 83.6 81.R 81.6 76.7 76.4 19.5 80**. 1** P1.8 81.8 8 C . n 92.9 93.6 78.8 79.8 81.5 75.1 93.5 94.9 98.3 98.3 98.3 98.3 97.6 11 001 72.3 85.3 42.6 93.B 95.2 97.9 98.3 98.6 98.6 98.6 98.6 9001 72.3 1101 72.3 7011 72.6 97.9 . . 45.3 86.6 89.J 97.8 97.8 92.8 97.3 97.3 97.6 98.3 93.8 95.2 98.6 98.6 98.6 98.6 25.5 93.9 97.6 98.6 98.6 86.3 67.3 67.7 99.7 6.5 91.4 93.5 94.5 95.9 98.3 98.6 20.7 99.3 99.7 99.7 99.7 G.F 94.9 133.3 120.3 100.0 36.0 90.1 91.8 93.8 96.2 98.6 Fuel 72.6 100.0 100.0 100.0 100.0 87.7 91.3 93.8 94.9 76.2 ₹8.6 99.0 99.3 99.7 60.1 91.04 97.3 4301 72.6 7,31 72.6 37.7 87.7 91.8 98.6 99.0 100.0 100.0 66.0 90.1 93.8 94.9 96.2 100.0 100.0 GF 86.0 90.1 91.8 93.6 94.9 96.2 39.0 99.7 100.0 100.0 99.6 21:01 77.6 67.7 91.8 43. b 94.9 96.2 29.0 130.3 100.0 100.0 100.0 86.0 100.0 1001 72.6 98.5 29 . E 99.7 100.0 122.0 100.0 G E 01 72.6 87.7 90.1 11.8 92.8 94.9 96.2 98.6 99.0 99.7 99.7 100.0 100.0 100.0 100.0

GLOBAL PLIMATOLOGY ERANCH USAFETAC AIR WEATHER DEPVICEMMENT

PERCEUTAGE FRIQUENCY OF OCCURPENCE OF CFILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

(

(:

STATION NUMBER: 221130 STATION NAME: MURMANSK USSR PERIOD OF RECORD: 78-87
MONTH: APR HOURS(LST): ALL

												MONTH			(LST):	ALL	
	LI:6	• • • • • •	•••••	• • • • • • •	•••••	• • • • • • •		visibil					• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	
	[N]	ŭ1	ωŁ	Gi	GE	SE	65	GE	GF	GE	GE	Gt.	G E.	GE	GE	GE	GΕ
FL	LT 1	160	っこ	40	6.	4 8	4 G	32	? 4	2 0	16	1 7	15	8	5	4	0
	• • • • • •	• • • • • •	• • • • • •	• • • • • •	• • • • • • •		• • • • • •	• • • • • •	• • • • • • •	• • • • • • •	• • • • • •	• • • • • •	• • • • • • •	• • • • • •	• • • • • •	• • • • • •	*******
11.0	CEIL I		29.6	37.4	31.1	31.4	31.9	32.2	32.5		32.9	32.9	32.9	32.9	32.9	32.9	32.9
M O	CEIL	£ / + .	. 9.0	3) • 4	31 - 1	21.4	31.9	32.2	34.5	32. R	12.4	3 4	36.4	25 • 4	32.4	32.9	32.9
C, F	nequal	32.6	55.4	36.1	30 • ₫	37.2	37.7	3A.O	38.5	38.8	38.9	30.0	39.9	38.9	38.9	38.9	38.9
	187621		45.4	36.1	36.8	37.2	77.7	38.0	38.5	38.8	78.9	30.4	38.9	38.9	18.9	38.9	38.9
į. f.	161301	32.6	35.4	36.4	36 . 6	37.2	37.7	38.0	38.5	38 . R	38.9	50.0	13.9	33.9	78.9	38.9	36.9
o.F.	147501	32.6	35.4	36.1	36 . 6	37.2	37.7	38.7	38.5	3 h . R	38.9	70.0	38.9	39.9	78.9	38.9	38.9
υĘ	1.7601	32.6	35.4	36.1	36.3	37.2	37.7	38 .C	38.5	38.8	38.9	5 9	38.9	39.9	38.9	38.9	38.9
_																	
	137301		44.5	40.7	53.7	51.3	52.1	52.5	53.2	53.7	53.8	57.9	c 3 . 9	54.0	54.0	54.0	54.C
G.F	9 331		43.5	49.7	5.1.7	51.5	52.1	52.5	53.2	3 • 7 د	c 3 • 8	57.9	51.9	54.5	54.0	54.0	54.0
13 m	1001 1001		4 d • 5	47.7	50.7	51.3	52 • 1	52.5	53.2	53.7	£ 3 • 8	57.0	5.9	54.0	54.0	54.0	54.0
6.5	67591		44.5	-	5u • 7	51.3	52.1	52.5	53.2	53.7	53.6	51.0	53.9	54.0	54.0	54.0	54.0
ωE	8 (20)	44.1	40.6	47.7	50.0	51.3	52.1	52.6	53.3	53.8	53.9	5	54.5	54.0	54.0	54.0	54.0
GE	51571	40.6	49.2	57.	51.4	51.9	52.8	53.2	53.9	54.4	54.5	50.6	54.6	54.7	E4 . 7	54.7	54.7
6 F	45001	45.1	4).6	50.9	51.9	57.5	53.4	53.8	54.5	55.0	95.1	55.1	55.2	55.2	55.2	55.2	55.2
(, 5	40071	47.9	53.0	54.1	55 . 2	55.8	56.7	57.1	57.8	58.4	59.5	50.5	48.6	58.6	58 • 6	54.6	58.6
υĒ	3:001	48.2	5 3 • 5	54.6	55 • 7	56.3	57.2	57.6	58.3	56.9	59.0	54.7	59.1	59.1	59.1	59.1	59.1
őΕ	3.001	42.9	· 4.2	55.4	56 • 5	57.0	56.0	58.5	59.2	59.9	59.9	50.0	59.9	60.0	60.3	60.0	60.0
L E	2501	60 6	65.1	69.5	71.1	12.1	73.4	74.2	75.2	76.2	76.4	74.4	75.5	74 /	7	7	76.7
L.F	20.05		69.7	71.1	72.5	13.7	75.2	76.0	77.1	78.0	78.2	70.3	78.4	76.6 78.5	76.6 78.5	76.6 78.5	78.5
a F		62.7	713.8	72.3	74 . 3	74.9	76.5	77.2	78.2	79.3	79.5	70	79.7	79.9	79.8	79.8	79.8
C.E.	15001		71.6	73.3	75.0	76.3	77.7	78.5	77.5	89.5	PB - F	H 7 . 3	80.9	81.3	61.0	81.0	81.1
u E	15001		17.0	81.9	84.9	55. ¥	94.4	90.7	92.4	34.0	95.7	91. 7	96.3	96.4	96.5	96.5	96.6
				• • •				,,,,,	,				,	,,,,	.0.3	,,,,	
C.E		67.1	1 3.4	9.7.4	E5 • 4	07.4	90.1	91.4	93.1	95.7	96 • 5	41.7	97.1	97.2	97.3	97.3	97.4
Œ		67.3	• £	52.6	85.7	B7.7	95.4	91.7	93.5	¥6.2	97.0	97.2	41.6	97.7	97.8	97.8	97.9
:. r		63.4	P (• P	н 2 • ⊱	P5 • H	67.9	90.6	91.9	93.8	96.5	77.4	97.5	ତନ 🗷 🖰	98.1	98.1	98.1	98.2
ù E		60.7	41.2	6 3 . 3	96 + 3	38.5	71.3	92.6	94.5	97.4	98.2	A d	98.8	99.3	99.3	99.0	99.1
G C	9001	£9.7	e 1 - 3	33.4	6 • 5	63.6	91.4	92.7	94.6	97.6	98.4	9°.9	33.7	99.2	97.2	99.2	99.3
6 f	r1	69.7	31.4	43.4	F6.5	нч.6	91.5	92.8	94.7	97.6	98.6	99.3	99.2	49.3	99.4	99.4	99.5
i, r		69.7	-1.4	4	86 • 6	6B . 7	91.5	92.8	74.8	97.7	98.7	95.7	97.3	99.4	99.5	99.5	99.6
6 E		67.7	d 1 · 4	H 2 . 4	36.5	e 4 . 7	91.5	92.8	94.8	97.7	98.7	30.3	79.3	99.4	99.5	99.5	99.6
G.F		62.7	- 1 - 4	83.5	96.0	08.7	71.5 71.5	92.0	94.6	97.7	98.7	90.0	99.3	99.7	99.7	99.7	99.8
Ú.F		69.7	8 . 4	83.5	£6.0	88.7	71.5	92.8	94.8	37.7	78.7	90.3	49.3	97.7	99.8	99.8	100.0
	•	•					• • • •		, , , ,	,		, • •	. , , ,			. , . 0	
LΕ	51	67.7	F1+4	43.5	Pt . 6	83.7	91.5	92.8	94.5	97.7	98.7	90.9	97.3	99.7	99.8	99.8	100.0

TOTAL NUMBER OF DESERVATIONS: 21.7

GEOFAL CEIMATOLOGY BRANCH USAFLTAC

PERCENTAGE FRINCENCY OF OCCURPENCE OF CFILING VERSUS VISIBILITY FROM FOURLY OBSERVATIONS

PERIOD OF FECORD: 78-87

ATR WEATHER SERVICEZEAC

STATION NUMBER: 271130 STATION NAME: HURMANSH USSR

MONTH: MAY HOURS(EST): 0000-0200 M^ VISIBILITY IN HUNDREDS OF METERS GT GE GE --CEILING GF 5 GF IN | 6T FEET | 160 GE 32 GE 24 GE 20 5t. 17 GF An G E GE C બ ું 4.0 16 4.6 16 25.0 27.3 27.3 27.6 27.6 27.5 21.€ 27.5 27.9 27.9 26.3 40 CETE 1 12.2 25.4 26.5 26.3 27.3 GE 200001 23.9 21.6 27.6 27.6 27.6 27.€ 27.9 25.3 28.5 29.6 29.3 27.3 79.1 33.0 27.3 29.6 :7.6 29.6 30.0 30.3 20.6 29.6 29.6 29.6 27.9 29.3 29.6 ut 18000) 23.9 ut 16'03| 23.9 21.€ 29.3 29.3 29.3 33.3 30.0 27.9 29.3 33.0 33.0 30.0 27.6 24.3 29.6 29.3 27.3 29.5 79.6 36.3 29.6 29.3 27.5 29.6 uf 14.201 23.9 27.6 28.3 28.5 29.3 30.3 29.3 29.3 29.6 27.6 29.6 ?3.0 3 C • 3 30.0 4]. 7 41.4 41.3 43.4 43.4 43.4 44.1 44.1 44.1 44.4 44.8 90001 35.7 8 001 35.7 70011 35.7 44.1 42.4 42.4 43.4 44.1 44.1 44.4 44.4 44.6 1. 6 47.7 41.4 41.9 43.4 43.4 44.1 44.1 44.4 43.4 44.1 44.1 44.1 4 .. 7 43.4 41.4 43.4 41.5 4 2. 7 41.4 41.3 42.4 43.4 43.4 43.4 44.1 44.1 40.1 44.1 44.1 44.4 44.4 44.8 00001 35.7 42.4 43.4 43.4 44.1 44.1 44.1 99.1 44.1 44.8 ., f 43.7 41.4 41.0 43.4 450 11 36.4 92.1 43.1 44.1 44.9 44.8 44.5 44.8 44.9 45.1 65 44.1 44.1 45.1 45.5 41.4 42.4 41.8 45.1 50.8 45.1 65.1 50.8 57.5 45.1 51.8 45.1 50.8 45.5 45.5 45.8 43.4 44.4 44.4 42.4 υE 4"out 92.1 48.1 46.5 * C . 2 50.2 50.2 51.9 35 331 43.8 59.3 51.9 -1.9 12.5 55.2 55.6 55.9 7 7 . 4 73.4 73.7 72.7 73.4 73.7 L.F 235,01 60.0 68.7 59.1 70.7 71.4 72.7 72.7 73.4 73.4 74.4 74.7 ล้าตือไ และก 71.5 72.4 74 • 1 75 • 4 79 • 8 74.7 74.7 74.7 75.1 75.8 υ£. 72.1 73.4 72.7 74.1 74.1 75.4 74.1 75.1 73.0 77.1 ù É 18001 62.3 71.4 75.4 76.1 76.1 76.1 76.1 76.4 76.4 1500| 66.0 1200| 74.7 75.8 76.8 77.3 78.5 79.8 79.8 83.5 90.5 99.5 83.5 9J.6 80.8 41.5 85.5 36.5 913.6 10001 75.3 97.5 93.3 93.3 94.9 94.9 95.6 95.6 5.5 9091 76.4 9001 76.8 87.2 57.5 38.2 91.2 92.6 92.9 73.9 94.3 94.3 94.6 94.3 95.6 96.0 96.0 91.7 91.3 96.6 96.3 96.3 96.3 96.6 97.3 96.6 97.0 97.5 97.6 3 A . D 01.6 96.3 ., Ł 7011 76.P 74.9 95.3 95.6 97.5 £7.9 38.7 91.9 95.3 97.3 97.3 93.0 98.0 98.7 95.3 37. 4 E 95.6 97.6 98.3 R7.9 98.9 92.3 93.9 98.3 99.0 į, r 5 .. 61 76 . F 97.9 98.9 92.3 47.6 98.3 99.0 93.1 95.6 95.6 97.0 91.6 97.6 97.6 29.3 95.3 96.0 30.7 4001 76.8 87.9 98.7 98.7 99.3 48.9 48.9 32.3 94.3 95.6 97.3 98.7 96.C 28.0 96.0 98.0 98.0 98.0 u f 42.3 99. A 94.7 97.9 96.0 92.3 94.3 96.] 36.0 98.3 95.6 1071 76.5 99.0 100.D 11 76.8 7.9 18.9 92.3 94.3 95.6 96.3 96.0 97.3 98.0 99.7 28.C 98.9 99.0 99.0 100.0

ULUBAL CLIMATOLOGY HRANCH USAFLTAC ATR WEATHER SERVICCYMAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CFILING VERSUS VISIBILITY FROM HOURLY θ_{BS}_{E} PVALIDNS

				_		: 40 RM							: MAY	HOURS	(LST):	0300-05	CC
CEILI	• • • • • • !• G	••••	• • • • • •	• • • • • •	• • • • • •	• • • • • • •		VISIHIL					• • • • • • •	• • • • • •	• • • • • •	• • • • • •	••••••
In	1		435	GF	üΕ	6 E	GΞ	GΕ	GS.	SC	30	nε	3.E	GE	GE	GE	GE
FEET		157	93	;]	6J	4 9	40	32	24	23	16	17	ن إ	9	5	4	٥
NO CLI				20.3												• • • • • • •	
4.9 CE	, ,		17.0	47.43	21.5	22,3	22.6	23.0	23.C	23.3	23.3	27.3	23.3	23.3	23.3	23.3	23.3
3r 20			23.3	24.3	26.5	27.2	27.5	27.9	27.9	28.2	29.2	20.2	28.2	28.2	28.2	29.2	28.2
of 190			23.3	24.3	26 ∙ 5	27.0	27.5	27.9	27.9	28.2	28.2	25.7	29.2	28.2	28 • 2	28.2	28.2
68 16			23.3	24.3	25 • 0	21.2	27.5	27.9	27.5	29.2	28.2	20.0	24.2	28.2	20.2	28.2	28.2
JE 14			27.3	24.3	20.0	27.2	27.5	27.9	27.9	L3 . 2	28.2	6 " • 2	23.2	28.2	78.2	28.2	28.2
68 12°	1001	2.7	27.3	24.3	20.0	21.2	27.5	27.9	27.9	. 1 • 2	28.2	20.2	29.2	28.2	78.2	28.2	28.2
ur IJ	2021 2	2.9	34.1	35.1	37.4	39.3	38.4	39.7	38.7	3	19.3	37.3	39.3	39.3	79.3	39.3	39.3
6E 9'	101 a	3.0	34.1	35.1	37 - 4	33.0	36.4	38.7	38.7	37.	39.3	30.5	79.3	37.3	39.3	34.3	39.3
GE B	1001 2	3.7	34.1	35.1	37 . 4	33.0	38.4	38.7	38.7	3	39.3	30.3	39.3	39.3	37.3	39.3	39.3
GC 7	Jun 1 3	2.9	34.1	35.1	27.4	34.5	38.4	38.7	38.7	٠ - ر	39.7	32.5	20.3	39.3	39.3	39.3	39.3
LE OF	nus i a	P. 3	34.1	15.1	37.4	33.	76.4	3 P . 7	38.7	39.	79.3	3 5 . 7	39.3	39.3	39.3	33.3	39.3
0.F <u>€</u>	0.21 3	0.2	75.4	36.4	22.7	37.3	39.7	49.2	40.0	40.3	40.7	47.7	43.7	49,7	40.7	40.7	40.7
	1001 3		15.4	56.4	38.7	31.3	35.7	47.7	40.C	40.3	43,7	47.7	47.7	40.7	40.7	43.7	40.7
6E 4"	1001 3	۰.7	45.2	46.2	48.5	49.2	49.5	49.8	49.8	50.2	50.5	5 * • 5	53.5	50.5	13.5	57.5	50.5
	5601 3		45.6	47.5	49.5	50.5	50.8	51.1	51.1	51.5	51.6	51.8	':1 · s	51.8	51.8	51.8	51.8
G.F. 31	nusi 4	2.0	43.5	40.5	52 • 1	52.9	53.1	53.4	53.4	53.9	54 + 1	54.1	54.1	54.1	54.1	54.1	54.1
	901 5		63.0	64,3	67.2	67.9	68. 9	67.2	69.2	69.5	69.B	65.8	57.8	69.8	67.8	69.8	69.8
95 2	JUN 5	6.1	65.€	66.7	67.0	77.5	71.5	71.8	71. F	12.1	72.5	77.5	72.5	72.5	72.5	72.5	72.5
GE 14	4531 5	7	69.6	57.3	73.8	71.5	72.5	72.8	72.8	73.1	73.4	77.4	73.4	73.4	73.4	73.4	73.4
	J 1 5	A. 7	67.5	59.4	72 - 1	72.3	73.8	74.1	74.1	74.8	75.1	71.1	75.1	75.1	75.1	75.1	75.1
υ ^τ 1.7	`u-1 6	7.2	73.0	01.6	96 • 2	87.2	ob. 9	89.2	89.5	70.5	01.1	91.1	c 1 • 1	91.1	91.1	91.1	91.1
	u:1 6		41.3	a 3.5	90.7	57.5	71.5	91.8	92.1	93.1	93.9	97.0	93.B	93.9	93.8	93.8	93.8
	6		1.6	84.3	67.2	41.2	91.8	92.1	92.5	93.A	94.4	94.4	94.4	94.4	94.4	94.4	94.4
	ارن!		E 2.	94.6	69.5	97.6	72.5	92.8	93.4	94.5	95.4	99.4	35.4	95.4	95.4	95.4	95.4
	7.21.7		2.3.3	45.3	71.1	72.5	94.1	94.4	95.1	96.4	97.S	97.7	97.0	97.8	97.0	97.0	97.0
6 E - 5	5001 7	○• 5	· 5. 5	95.9	31.1	92.5	74.1	94.4	95.1	96.4	97.0	91.7	97.6	97.3	ں.77	97.0	97.0
			2 2 . 3	35.7	21.1	92.5	~4 • 4	94.9	95.4	,6.7	97.7	97.7	97.7	97.7	97.7	97.7	91.1
	130 1 7		- 3. C	36.2	91.5	93.1	95.4	95.7	96.4	97.7	99.7	90.7	99.7	98.7	98.7	99.7	98.7
	3071 7		· 3.6	36.2	91.3	93	95.4	95.7	96.4	97.7	98.7	90.7	38.7	98.7	98.7	98.7	98.7
	1021 7		? 3 . 6	36.2	91.3	93.1	95.4	95.7	96.4	+7.7	98.7	91.7	99.3	99.3	07.5	99.3	99.3
1 2 1	150 7	. 5	0.3 € 6	86.2	91+3	93.1	35•4	95.7	96.4	97.7	78.7	90.7	30.5	99.3	99.3	99.3	100.0
υ F.	.17	7.5	£ 3.6	86.2	+1.3	93.1	45.4	95.7	96.4	97.7	08.7	90.7	99.7	99.3	99.3		100.0

GEORAL CLIMATOLOGY BRANCH USAFLIAC AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURPENCE OF CFILING VERSES VISIBILITY FROM HOURLY OBSERVATIONS

STATION NUMBER:	221136	STATE	ON YAME:	микч	MSK US	S P					OF FEC		-87 (LST): (06LD-08	cc
	• • • • •	• • • • • •	• • • • • • •	• • • • • • •			ITY IN (• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	••••••
19 51	ыC	GΕ	G.E.	GE	67	GE	GE	GE	GE	ren r	51	6_	GE	58	GΕ
FLET 1 100	(د	aJ	6.)	9 4	¥ C	32	7 4	2.0	16	12	16	B	5	4	0
								• • • • • • •							
NO CEIL 20.9	22.8	22.0	23.5	24.5	24.5	24.8	24.8	25 • 2	25.2	25.2	25.2	25 . 2	25.2	25.2	25.2
um 200001 23.2	25.2	25.2	25.5	:7.5	27.5	27.8	29.1	29.5	28.5	20.5	28.5	28.5	28.5	28.5	28.5
0E 130001 23.2	23.2	25.2	20.0	27.5	27.5	27.8	28.1	28.5	26.5	20.6	25.5	28.5	28.5	28.5	28.5
at 15.331 23.2	25.2	25.2	26.5	27.5	27.5	27.8	28.1	29.5	28.5	21.5	28.5	28.5	28.5	28.5	28.5
65 140001 23.2	25.2	25.2	20.5	27.5	27.5	27.8	28.1	28.5	28.5	25.5	29.5	28.5	28.5	28.5	28.5
66 107001 23.0	25.2	25.0	20.5	21.5	27.5	27.8	23.1	28.5	28.5	20.5	28.5	28.5	28.5	28.5	28.5
UE 139091 32.1	35.4	35.4	37.7	37.4	39.7	40.1	40.4	40.7	40.7	4^.7	41.1	41.1	41.1	41.1	41.1
6E 9.561 32.1	30.4	36.4	37.7	37.4	39.7	42.1	43.4	43.7	40.7	47.7	41.1	41.1	41.1	41.1	41.1
of 8 of 12.1	35.4	36.4	37.1	37.4	39.7	40.1	40.4	40.7	40.7	47.7	41.1	41.1	41.1	41.1	41.1
6E 77631 37.1	36.4	36.4	37.7	37.4	39.7	40.1	40.4	40.7	4C.7	40.7	41.1	41.1	41.1	41.1	41.1
GE 6700 32.1	36.4	36.4	37.7	39.4	39.7	47.1	43.4	43.7	40.7	40.7	41.1	41.1	41.1	91.1	41.1
un 32001 42.8	17.1	37.1	39.4	47.1	46.4	40.7	41.1	41.4	41.4	41.4	41.7	41.7	41.7	41.7	41.7
55 45.01 33.1	37.4	37.4	38.7	43.4	40.7	41.1	41.4	41.7	41.7	41.7	42.1	42.1	42.1	42.1	42.1
SE 40001 37.4	47.4	37.4	43.7	45.4	45.7	46.0	46.4	46.7	46.7	41.7	47.0	47.3	47.0	47.0	47.0
GE 35GDI 39.7	43.7	43.7	45	45.7	47.6	47.4	47.7	49.0	48.0	45.7	43.3	49.3	45.3	49.3	48.3
55 3003 37.7	44.7	34.7	46.0	43.0	46.3	45.7	49.0	49.3	49.3	46.1	49.7	49.7	49.7	49.7	49.7
, , 0.,, ,,,,	4447	***	43.0	4,45	40.5	70 1	47.5	77.7	47.5	4-43	47.1	49.1	47.7	77.1	-7.1
68 25,71 52.6	59.3	50.0	61.3	63.)	64.2	64.9	65.2	65.6	65.6	65.5	66.2	66.2	66.2	66.2	60.2
5F 21UN1 54.6	61.3	51.5	63.2	65.5	66.2	66.7	67.2	67.5	67.5	67.5	68.2	68.2	63.2	68.2	68.2
of 18,3[56.7	62.0	> ₹.9	54 • 6	67.2	67.5	68.2	48.5	68.9	68.9	60.9	69.5	69.5	69.5	69.5	69.5
GF 15001 57.3	64.6	54.9	66.5	09.2	69.5	70.2	70.5	12.9	70.9	70.9	71.5	71.5	71.5	71.5	71.9
OF 12571 66.9	76 • 2	76.45	73.5	ε3·1	8.65	85.1	86.4	87.4	e7.7	87.7	98.4	88.7	P8.7	8 A • 7	89.1
9E 1 301 67.5	-7.5	79.5	82.1	85.9	86.4	87.7	99.1	90.1	90.4	9^.4	91.1	91.4	71.4	91.4	91.7
66 7 51 53.2	74.5	37.1	F3.1	46.3	87.4	88.7	93.1	91.1	91.4	91.4	92.1	92.4	92.4	92.4	92.7
65 SUJ 67.9	79.1	31.1	94.1	68.1	86.7	90.1	91.7	42.7	93.0	93.7	93.7	94.0	94.0	94.0	94.4
US 7301 70.2	- 7.5	43.1	86.4	37.4	91.1	92.4	94.5	95.7	95.4	50.4	96.0	96.4	76.4	96.4	96.7
6F 637 1 7~.5	ĉ ! ⋅ 1	33.9	87.1	91.1	91.7	93.0	94.7	95.7	96.5	96.7	96.7	97.7	97.3	97.0	97.4
JE 5,31 70.5	31.1	33.4	87.1	91.1	91.7	93.0	94.7	45. 7	96.0	96.0	96.7	97,7	77.0	97.0	97.4
6E 4801 71.5	31.1	33.5	57.1	91.1	71.7	93.0	94.7	95.7	96 ⋅ ℂ	96.0	96.7	97.0	97.0	97.0	97.4
65 3631 72.5	11.1	33.5	07.1	91.1	71.7	93.0	94.7	95.7	96.0	96.5	36.7	97.0	07.0	97.0	97.4
05 Facil 70.5	1.5	54.1	87.4	91.4	92.1	93.4	95.0	96.3	96.4	95.4	97.6	98.0	98.3	98.0	98.3
UE 1931 73.5	41.5	54.1	57.4	91.4	92.1	93.4	95.0	96.0	96.4	94.4	97.0	98.7	98.0	98.3	99.7
		-			_	-					-	-			
9F)1 77.5	41.5	34.1	87.4	91.4	1 • ع ت	93.4	95.5	96.7	96.4	94.4	97.0	98.0	99.0		100.0

GLUBAL CLIMATOLOGY BRANCH USAFETAC AIR WEATHER SERVICLYMAC

PERCENTAGE FREQUENCY OF OCCUPPENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

STATION	:::L	MPER:	221130	211416	IN NAME:	MURM #	NSK USS	, R				PET100	OF PECO	RO: 78-	8 7		
												MONTE:	MAY	FOURS (LST1: 0	3983-116	20
CEILING							٧	ISTRIL!	TY IN F	IUNDREDS	OF MET	ERS					
114	- 1	(, T	G*.	GT	G F.	GŁ	ĢĒ.	ΘE	GE	GΕ	GE	T.E.	61	GE	ĢΕ	GÊ	(
CCC t	i	1/ 0	F4 11	0.7	4.	11.4	te :	77	2 11	2.0	1 4	1.5	1.0	G	e		

	• • • • •	• • • • • •	• • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	•••••			HUNDREDS			• • • • • • •	• • • • • •	• • • • • • •	• • • • • • •	• • • • • • • • • •
LEI	L 1+, 6	c.T	G*:	61	G.T.	GŁ	65	GE.	GE GE	GE	GE	ERS EE	61	GE	GF	G£	GE
FE			بن. ت ت	97	60	4 13	4 d	32	74	5.0	16	12	10	9	5	4	0.
_												• • • • • •				•	
		• • • • •	••••													• • • • • • •	
NO I	CLIL I	27.9	27.9	22.9	23.3	23.6	23.6	23.6	23.€	23.6	. 2 . 6	27.5	23.6	23.6	23.6	23.6	23.6
6.6	247.001	25.2	17.6	27.5	27.3	28.2	28.2	28.2	28.2	28.2	28.2	2 ?	28.2	28 • 2	28.2	28.2	28.2
	larubl		27.6	27.5	21.7	23.2	26.2	28.2	28.2	28.2	28 • 2	2 = .2	28.2	28 • 2	28.2	28.2	28.2
	16: 50		27.6	27.6	21.+	28.2	28.2	28.2	29.2	28.2	28.2	20.2	28.2	28.2	20.2	29.2	28.2
	14 551		77.0	21.6	27.9	29.2	28.2	29.2	28.2	∠9+2	28 • 2	20.0	23.2	28.2	28.2	28.2	28.2
SE	150001	25.2	27.6	27.6	27.9	-8.2	28 • 2	2 9 • 2	28.2	28.2	29.2	25.5	29.2	28.2	28.2	29.2	28.2
úΕ	10001	33.9	33.5	39.7	39.5	1.7.2	40.2	47.2	43.2	40.2	40.2	40.2	40.5	40.5	43.5	40.5	40.5
ΘE	97331		30.5	33.9	37.5	40.2	40.2	47.2	40.2	40.2	40.2	4 7	43.5	40.5	40.5	40.5	40.5
GΕ	arubi		*h.5	38.9	39.5	40.2	46.2	40.2	43.2	40.2	40.2	47.2	47.5	49.5	43.5	43.5	40.5
G F.	7:001	33.9	₹8.5	38.9	39.5	47.2	40.2	40.2	40.2	40.2	40.2	4".2	43.5	47.5	40.5	40.5	40.5
IJΕ	67UNT	33.9	28.5	38.9	39.5	47.2	40.2	45.2	47.2	40.2	40.2	40.2	40.5	40.5	40.5	40.5	40.5
r	50001	7.7.0	38.5	33.9	39.5	43.2	40.2	40.2	40.2	40.2	40.2	4^.2	40.5	40.5	48.5	40.5	40.5
υE	40.01		30.5	38.9	39.5	40.2	40.2	40.2	43.2	40.2	40.2	40.2	40.5	40.5	40.5	40.5	40.5
6 E	47001		43.5	43.0	44.5	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.5	45.5	45.5	45.5	45.5
o E	3500		45.5	45.4	45.5	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.5	47.5	47.5	47.5	47.5
65	30001		46.5	46.3	47.5	48.2	48.2	48.2	48.2	48.2	48.2	46.2	42.5	48.5	48.5	48.5	48.5
υĒ	25 101	56.5	65	52.5	63.5	54.5	64.5	64.5	64.5	64.8	64.8	6 t • 1	65.4	65.4	65.4	65.4	65.4
G.E.	2.031	53.8	44.5	55.1	66.1	67.4	67.4	67.4	61.4	67.8	67.8	66.1	63.4	68.4	68.4	68.4	68.4
GE	18601	53.5	65.8	56.4	67.4	68.5	68.8	68.8	68.8	69.1	59.1	69.4	67.8	69.8	69.8	69.8	69.8
(, €	ורניו		67.4	58.4	69.4	17.3	70 · 6	79.8	7J.8	71.4	71.4	71.8	72.1	72.1	72.1	72.1	72.1
., "	10001	73.P	82.1	33.7	95.4	87.3	87.7	88.0	87.J	89.7	90.0	9 " • 7	01.6	71.4	91.4	91.4	91.4
υE	10001	75.4	34.4	46.0	87.7	37.4	90• O	90.4	91.7	92.4	92.7	97.4	94.0	94.7	94.0	94.5	94.0
٦.		75.4	35.0	35.7	80.7	97.4	91.0	91.4	92.7	93.4	93.7	94.4	75 · C	95.0	95.9	95.0	95.0
ų r		76.1	26. 1	37.7	59.1	91.4	92.0	92.4	93.7	94.4	95.0	91.7	95.3	96.3	96.3	96.3	96.3
i. F	7321	76.4	97.0	39.3	91.0	92.7	93.4	97.7	95.0	95.7	96.3	97.5	97.7	97.7	97.7	97.7	97.7
∍ F,	أضيا	76.4	37.4	59.4	91.4	93.0	94.4	94.7	96.0	96.7	97.3	94.7	≎6.7	98.7	98.7	98.7	98.7
G.F	t -11	75.4	17.4	39.7	91.7	93.4	94.7	95.3	96.3	97.3	98.0	95.7	99.3	99.3	99.3	99.3	99.3
ijΕ		76.4	97.4	39.7	91.7	y 3 . 4	94.7	95.3	96.3	97.3	98.0	90.7	99.3	99.3	99.3	99.3	99.3
G E		76.4	37.4	37.7	91.7	93.4	94.7	95.0	96.3	97.3	98.0	90.7	99.3	99.3	99.3	99.3	99.3
-		76.4	07.4	37.7	91.7	93.4	94.7	95.0	96.3	97.3	98.0	90.7	99.3	99.7	99.7	99.7	99.7
G F		75.4	97.4	39.7	91.7	93.4	94.7	95.0	96.3	97.3	98.5	90.7	99.3	99.7	99.7	99.7	99.7
												-					-
o, F	31	76.4	81.7	97.5	92.3	93.7	95.ú	95.3	96.7	97.7	98.3	99.0	99.7	130.3	170.0	160.0	100-0

DEOGAL CLIMATOLODY BRANCH USAFLTAC AIR WEATHER SERVICE/MAC

PEHCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM FOURLY CASERVATIONS

STATION NUMBER: 201130 STATION NAME: MUPMANSK USSR PERIOD OF PECORD: 78-67
MONTH: MAY HOURS(LST): 1200-1400

CEI	 L I 76	• • • • •	• • • • • •	• • • • • • •	• • • • • • •	• • • • • • •			ITY IN			ERS	• • • • • • •	• • • • • •	• • • • • •	• • • • • • •	• • • • • • • • • •
I	_	61	GF	GT	G.E.	GE	GE.	GE	GE	5E	GE	1.6	SE	GĒ	GE	GE	GE
FÉ		160	ັ້າງ	نده	6.1	4.4	4.0	32	24	3.5	16	1 -	10	9	5	4	0
			• • • • • •														
NO	CEIL I	23.4	23.7	24.1	24 • 1	24.7	14.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7
	200601		21.8	28.1	20.1	23.8	28.8	28.8	28.8	29.9	28.6	20.4	28.8	28.9	28.8	28.8	28.8
υE	180001	27.1	21.3	23.1	28.1	29.8	26.8	28.8	28.8	28 ⋅ 8	28.8	26.9	29.3	28.8	28.8	28.8	28.8
GF	16/42	27.1	27.8	28.1	23.1	29.4	28.8	29.8	28.8	28.9	28.8	2 4 ⋅ ₽	28.8	29.8	28.8	29.8	28.8
5 E	14"071	27.1	27.8	29.1	28.1	28.d	26.8	28.9	28.8	28.9	28 • 8	25.0	28.8	28.9	28.8	28.8	28.8
υE	150001	27.1	27.8	28.1	20.1	29.8	26.8	28.8	28.8	29 • B	28.8	20.9	28.8	29.8	28.8	28.8	28.A
G C	100001	36.5	79.1	37.1	39.5	40.1	45.1	40.1	40.1	40.1	40.1	47.1	40.1	40.1	40.1	40.1	4C.1
5€	9 031	36.5	49.1	39.1	37.5	4 7 • 1	40.1	40.1	40.1	40.1	40.1	47.1	49.1	47.1	43.1	40.1	40.1
ЬĒ	80001	36.5	3 1 . 1	37.1	37.5	43.1	46.1	40.1	40.1	40.1	49.1	4 ~ • 1	47.1	40.1	40.1	40.1	40.1
J. [7-031	36.5	39.1	39.	37.5	42.1	46.1	40.1	43.1	42.1	40.1	47.1	40.1	40.1	43.1	40.1	40.1
S E	50001		7.5.1	39.1	79.5	47.1	46.1	42.1	4J.1	43.1	40.1	47.1	40.1	40.1	40.1	40.1	40.1
							• • •				• • •						
jΕ	50001	37.1	39.3	37.8	40.1	40.0	46.8	40.8	43.8	40.8	40.9	4 8	43.8	47.8	43.8	4 D • 8	4 D • 8
GΕ	4551	37.1	33.8	39.9	40 • i	40.8	43.8	43.8	40.8	4 D . B	40.8	45.8	40.8	40.8	43.8	45.8	40.6
5 E	4-331	43.1	45.2	46.2	46.5	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2
t: E	35301	44.1	46.2	47.2	47.5	48.2	46.2	48.2	49.2	48.2	48.2	40.2	48.2	48.2	48.2	48.2	48.2
ĞΕ	30 Up 1		48.2	47.	49.5	5 3 • 2	56.2	50.2	50.2	50.2	50 • 2	5.0.2	50.2	50.2	50.2	50.2	50.2
	- • - •						• • •										
65	25,521	£ ? . 9	50.9	59.2	69.6	73.6	76.6	77.6	73.6	70.9	70.9	71.09	71.2	71.2	71.2	71.2	71.2
6 E	2"001	64.2	63.6	69.9	71.6	72.6	74.6	72.6	72.6	72.9	72.9	77.9	72.2	73.2	73.2	73.2	73.2
(, =	10351	54.5	69.6	70.7	72.7	73.9	73.9	73.9	73.9	74.2	74.2	70.2	74.6	74.5	74.6	74.6	74.6
1, 5	15001	67.2	72.6	73.9	75 . ,	77.3	77.3	77.3	77.3	77.5	77.€	77.6	77.9	77.9	77.9	77.9	77.9
υ€	12021	72.9	37.0	87.5	91.6	93.2	93.5	93.3	93.6	94.0	94.0	94.3	94.6	24.5	95.0	95.0	75.0
u €	1 1001	79.6	88.0	93.0	93.0	94.3	74.3	94.6	95.6	95.3	95.3	91.7	75.3	96.0	96.3	96.3	96.3
5 E	9.01	79.9	58.3	97.3	93.5	95.3	95.0	95.3	95.7	96.7	96.0	96 . ?	46.7	96.7	97.0	97.0	97.0
, F	4001	4C.3	6 8 . E	7 1.6	94.0	95.3	95.3	95.7	96.0	96.	96.3	46.7	97.0	97.0	97.3	97.3	97.3
(F	7.701	40.6	90.0	91.6	95 • 3	96.7	96.7	97.0	97.3	97.7	97.7	90.0	98.3	98.3	28.7	98.7	98.7
w.E	6 (3)	80.6	99.3	92.0	95.7	97.0	97.C	97.3	97.7	98.0	98.0	94.3	58.7	99.7	99.J	99.5	99.3
ΘE	5001	50.9	90.6	92.6	46.3	97.7	97.7	98.0	98.3	98.7	98.7	90.0	39.3	99.3	99.7	93.7	99.7
(3 F	400	87.9	٠٠	93.	96 • 7	98.1	98.3	98.3	98.7	99.3	99.6	99.3	99.7	99.7	100.0	160.0	100.0
θE	7001	20.0€	95.0	93.0	96.7	98.5	93.D	90.3	98.7	49.7	99.C	92.7	77.7	99,7	100.0	100.0	100.0
6 E	2.77	F 7. 9	90.5	93.7	Ot . 7	99.2	98.0	98.3	93.7	99.0	99.ū	90.3	99.7	99.7	100.0	100.0	100.0
6 E	1501	63.9	93.3	93.0	96.7	98.3	98.€	98 + 3	98.7	99.0	99.5	90.3	99.7	99.7	100.0	100.0	100.0
∴ F	24	63.9	90.0	93.	7 . يات	48.7	98.6	98.3	98.7	99.D	99.0	99.3	99.7	99.7	100.0	100.0	106.0

GLORAL CLIMATOLOGY BRANCH USAFLTAC AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

SI	401T4	NUMBER	: 221130	SIATI	ON NAME:	MURM	ANSK US	SR				PETIOD	OF PEC	ORD: 78	-87			
												MCHTH	I: MAY	HOURS	(LST1:	1500-17	CO	
										• • • • • • •								•
CF	11.11.6									HUNDRED!								
	I N	1 61	6E	G E.	GΕ	GE	េះ	GΕ	6_	GE	GE	' L	GΕ	GΕ	GΕ	GE	GE	
F	IE I	1 100	37	50	()	48	43	32	24	2 0	16	1.7	15	Ą	5	4	0	
• •					• • • • • • •	• • • • • •	• • • • • •	• • • • • •	• • • • • • •	• • • • • •			· · · · · · ·	• • • • • •	• • • • • •		• • • • • • • •	٠
N ()	CEIL	1 27.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	27.6	23.6	23.6	23.6	27.6	23.6	
								_										
		21 26.9	27.3	27.3	27.3	27.3	27.3	27.3	21.3	27.3	27 • 3	27.3	27.3	27.3	77.3	27.3	27.3	
		01 26.9	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27 • 3	27.3	27.3	27.3	27.3	27.3	27.3	
		01 -2.0	27.3	27.3	21.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3	21.3	27.3	27.3	27.3	27.3	
		31 36.0	27.3	27.3	21.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3	
υ£	1213	JI 26.9	27.3	27.3	27.3	27.3	27.3	27.3	27.3	٠7.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3	
		C 37.7		37.4	38.4	38.7	36.7	38.7	34.7	39.1	79.4	37.4	37.4	39.4	39.4	39.4	39.4	
CF		21 37.7	38.4	34.4	36 - 4	38.7	36.7	38,7	38,7	39.1	39.4	34.4	79.4	39.4	39.4	39.4	39.4	
67.		0 37.7	38.4	39.4	30.4	39.7	38.7	38.7	38.7	39 • 1	79.4	30.4	79.4	39.4	39.4	39.4	39.4	
G.F		01 37.7	38.4	3 R • 4	36.4	38.7	38.7	38 . 7	38.7	39.1	39.4	30.4	39.4	39.4	79.4	39.4	39.4	
υE	6' 6	UI 37.7	34.4	33.4	38.4	38.7	38.7	38.7	36,7	39.1	39.4	30.4	39.4	39.4	39.4	39.4	39.4	
1.5	64.5	91 30.4	3 / - 1	39.1	39.1	39.4	39.4	37.4	39.4	39.7	40.1	4".1	43.1	43.1	40.1	40.1	40.1	
G.F.		01 38.4	37.1	37.1	39.1	39.4	39.4	39.4	39.4	39.7	48.1	4~.1	43.1	42.1	40.1	40.1	40.1	
G.Ε.		21 43.1	43.6	4	43.8	44.1	44.1	44.1	94.1	44.4	44.8	44.9	44.8	44.8	44.8	44.8	44.8	
65		0 45.1	45.8	45.3	45.8	46.1	46.1	46.1	46.1	46.5	46.8	44.8	46.8	46.5	46.8	46.8	46.8	
- G.E.		ST 45.1	40.0	46.0	45.5	49	49.2	49.2	49.2	49.5	49.8	42.0	47.8	49.8	49.8	49.8	49.8	
- OF 42	21 2	-1	76.3	4.7	*****	77.62	7712	47.12	47.2	77.7	4740	4 - • /-	17.0	*,**"	- 710	1,10	.,,,	
UF	250	11 64.7	71.7	11.7	71 - 7	72.7	73.1	73.4	73.4	73.7	74.1	74 • 1	74.1	74.1	74.1	74.1	74.1	
£.E	ن ہے	JI 71.4	74.4	74.4	74.4	75.4	75.8	76.1	76.1	76.4	76.8	7 - 8	76.8	76.8	76.8	76.8	76.8	
5 E	1 F .	JI 73.1	76.1	76.1	76.1	77.1	77.4	77.B	77.8	78.1	79.5	77.5	79.5	78.5	78.5	78.5	76.5	
u C	110	31 74.4	77.8	17.8	17.0	79.0	75.1	79.8	79.8	83.1	A0.5	65.5	50.5	80.5	90.5	80.5	8 D • 5	
(, 5	1.0	21 54.0	95.9	15.4	95.9	97.3	93.3	93.7	94.6	y5.6	96.3	94.6	96.6	96.6	96.6	96.6	96.6	
(, ~		71 85.2	71.6	71.9	91.7	+3.3	94.3	95.3	96. Ü	97.0	¢7.6	96.0	20.0	98.0	98.0	98.0	96.0	
LF		31 85.2	31.6	31.3	62.3	93.6	94.6	95.6	96.3	97.3	98.C	96.3	78.3	98.3	98.3	98.3	98.3	
6.5		01 85.2	91.9	92.3	92.6	93.9	94.9	96.0	96.6	97.6	OB . 3	90.7	98.7	99.7	96.7	98.7	98.7	
υĘ	7.1	J≱ 95•2	92.€	92.9	93.3	94.6	95.6	96.6	97.3	98.3	99.2	90,₹	99.3	99.3	99.3	99.3	99.3	
υĘ	£ ";	el 85.2	32.6	92.9	93.3	94.6	95.6	96.6	97.3	98.3	99.0	93.7	23.3	99.3	99.3	99.3	99.3	
									_	_				_				
υE		21 85+2	3~•E	12.1	93.3	94.9	96.0	97.0	97.6	98.7	99.3	99.7	99.7	99.7	99.7	99.7	99.7	
(, £		01 85.2	200	92.9	93.3	94.9	96.0	97.0	97.6	98.7	79.3	99.7	99.7	99.7	99.7	99.7	99.7	
95		3∤ 85•3	92.6	92.9	93.3	94.9	56. O	97.5	97.6	≠8.7	99.3	93.7	99.7	99.7	99.7	99.7	99.7	
U.F.		č 85•5	92.9	93.3	93.6	95.3	76.3	97.3	98.5	39.7	99.7	100.0	100.0	100.2	100.0	100.0	100.0	
υF		?! ~ * • 5	45.4	11.5	03.5	95. 7	.6.3	97.3	98.C	99.7	99.7	130.0	150.0	100.3	100.0	100.0	100.0	
υF		31 85.5	92.9	93.3	93.6	95.3	G6.3	97.3	98.0	99.0	00.7	100.3	100.0	122 2	100.0	100.0	100. n	
																	1.0.0	
	•																	•

CLOSAL CLIMATOLOGY FRANCH LSAFETAC AIR JEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURPENCE OF CEILING VERSUS VISIBILITY FROM FOURLY OBSERVATIONS

STAT	LICH NU	MEER:	221130	STATE	ON NAME:	40 kM	ANSK US	S R				PERIOD	OF PEC	ORU: 78	-87		
													: "AY		(LST):		
		• • • • •	• • • • • • •	• • • • • •	• • • • • • • •	• • • • • •		v I S I B I L					• • • • • • •	• • • • • •	• • • • • • •	• • • • • • •	• • • • • • • • • •
CEIL		67	GE	GF	ĠE	GE	GE	GE	65 65	GE	6E	11 R 51	6.6	GŁ	GE	GE	GE
FEE		160	Qυ	30	6.1	4 8	¥ 0	32	24	2.7	16	1.7	1.0	e.	5	U 4	i i
					-		-				-				-		
																• • • • • • • • • • • • • • • • • • • •	
40 C	EIL I	25.8	26.4	26.4	26.5	25.0	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1
9 € 2	l acces	31.1	31.8	31.6	32 • 1	37.1	32.4	32.4	32.4	32.4	32 . 4	37.4	12.4	32.4	72.4	32.4	32.4
6 E 1	Lebbul	31.1	31.6	31 × ë	32 • 1	32.1	32.4	32.4	32.4	32.4	32.4	37.4	?2.4	32.4	72.4	32.4	32.4
	16 10 11		11.8	31.8	32 • 1	32 · i	32.4	32.4	32.4	32.4	72.4	5.7 . 4	12.4	32.4	32.4	32.4	32.4
6 E 1	147 001	31.3	31.8	31.0	32.1	32.1	32.4	32.4	32.4	32.4	32.4	32.4	37.4	32.4	72.4	32.4	32.4
65.4	13,001	31.1	31.0	31.0	32 • 1	32 • 1	?2 • 4	32.4	32.4	32.4	32.4	37.4	32 • 4	32.4	12.4	32.4	32.4
65 1	(core)	41.1	41.8	41.8	42.1	42.1	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5
	90011		41.8	41.9	42.1	42.1	42.5	42.5	42.5	42.5	42.5	47.5	42.5	42.5	42.5	42.5	42.5
5 €	0 10.11	41.1	41.5	41.9	42.1	42.1	42.5	42.5	42.5	42.5	42.5	47.5	92.5	42.5	42.5	42.5	42.5
υE	1.001	41.1	41.8	41.A	42 + 1	42.1	42.5	42.5	42.5	42.5	42.5	47.5	42.5	42.5	42.5	42.5	42.5
6 E	60001	41.1	41.3	41.8	42.1	42.1	42.5	42.5	42.5	42.5	42.5	47.5	42.5	42.5	42.5	42.5	42.5
SE	sheet	41.1	41.8	41.9	42.1	42.1	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5
	4537		42.1	42.1	42.5	42.5	42.8	47.8	42.8	42.8	42.6	47.8	42.8	42.9	42.8	47.P	42.8
	41371		49.2	49.2	49.5	49.5	44.8	49.8	49.8	49.8	49.8	40.4	44.8	49.9	49.8	49.8	49.8
	35001		51.3	51.2	52 • 2	52.2	52.5	52.5	52.5	52.5	52.5	5 7 • 5	52.5	52.5	52.5	52.5	52.5
υĒ	rhoot	53.5	54.2	54.2	54.5	54.5	54.8	54 •8	54.8	54.9	c4.8	54.8	54.8	54.8	54.8	54.8	54.8
G.E.	25.21	77.9	72.9	72.9	73.6	73.6	73.9	73.9	73.9	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
6 E	21 301	73.2	75.3	75.3	75.9	75.9	76.3	76 . 3	76.3	76.5	76.6	74.6	76.6	76.6	76.6	76.6	76.6
is E	1551	74.2	70.3	76.3	76 • 9	76.7	77.3	77.3	77.3	77.6	77.t	77.6	77.6	77.6	77.6	77.6	77.6
, F	1:301		77.3	77.3	77.9	77.9	7c. 3	79.3	78.3	75.6	78.6	77.4	73.6	78.6	78.6	78.6	76.6
t, F	12551	HC. ~	93.3	93.	33.0	94.3	०५. ७	94.6	95.3	95.7	₹6.5	91.3	96.3	97.3	97.3	97.3	97.3
u €	1 101	90.5	74.3	94.3	95.3	96	96.3	96.3	91.0	97.3	99.5	90.7	99.0	99.0	29.0	40.0	79.0
υ Ē.	9,31		74.E	94.5	90.0	96.1	37. L	97.0	97.7	98.0	SP.7	97.7	99.1	99.7	99.7	99.7	99.7
€	F 30 [40.C	74.6	94.6	76 • 3	96.7	97.0	97.0	97.7	98.0	38.7	92.7	ହୟ. 7	99.7	99.7	99.7	99.7
7 Ç	7071		74.0	24.5	95.0	96.7	37. Ú	97.0	91.7	¥8.0	28.7	97.7	93.7	99.7	99.7	97.7	99.7
GΕ	6.31	٠.٠	34.0	94.5	96 • J	95.7	97.0	97.3	97.7	98.7	98.7	42.7	79.7	99.7	99.7	99.7	99.7
€ F	5001		34.€	14.6	96 + 3	95.7	97.0	€7.0	97.7	98.0	98.7	90.7	99.7	99.7	99.7	99.7	99.7
L.E	4 - 3		95.3	75.3	90 - 3	97.0	97.3	97.3	98.3	98.3	99.0	60.3	33.0	160.0	1,000	107.0	100.0
ı E	1331		35.J	95.3	96.3	97.3	97.3	97.3	98.7	19.3	99.0	94.1	99.C	100.0	100.0	100.0	100.0
u Ç	2931		75.3	95.3	96 • 3	97.0	97.3	97.3	98.J	98.3	99.℃	8 J • J	93.0	100.0	160.0	100.0	100.0
G.E.	1.51	97.E	75.) s . '	90 • 3	97.0	97.3	97.3	93.5	79.3	99.0	47.J	33.0	100.0	100.0	100.0	100.0
G.E.		93.0	75+C	95.3	96.3	97.3	97.3	97.3	98.0	¥A.3	99.0	90.0	79 · U	100.0	100.0	100.0	100.0

ULOBAL CLIMATOLOGY PRANCH USAFETAC AIR KLATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOUSEY OBSERVATIONS

STATION NUMBER: 221133 STATION NAME: MURMANSK USSR

STATION NUMBER	: 221133	STATI	ON NAME:	MURM	ANSK US	S PI				PERIOD	OF PEC	ORD: 78	-87		
										MONTE				2100-23	CO
		,									• • • • • •	• • • • • • •	• • • • • •		• • • • • • • • •
CEILING								HUNDKED.							
IN 01	GL.	3.0	G€	GE	6E	GE	GĒ	٥Ł	GE	1-E	SE	-	G€	r, E	GF
FEET 100			65	4 5	46	32	2.4	27	16	1.3	1.0	8	5	4	O
• • • • • • • • • • • • • •	• • • • • • • •	• • • • • • •	• • • • • • •	• • • • • •	•••••	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • • • • •
NO CETE 22.6	24.3	24.3	24.3	29.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.1	24.3	24.3	24.3
MO CUIL 1 55.0	. 44.3	24.5	24.3	24.5	24.3	24.3	24.3	24.3	24.5	2 4 6 3	24.3	24.	24.3	c 4 • 3	24.3
GE 201901 27.2	23.9	29.2	79.2	29.2	29.2	29.2	29.2	23.2	29.2	29.0	29.2	29.2	29.2	29.2	29.2
55 182001 27.2		29.2	29.2	22.2	29.2	29.2	29.2	29.2	29.2	2	29.2	29.2	29.2	29.2	29.2
GE 16:001 27.2		27.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	24.5	29.2	29.2	23.2	29.2	29.2
00 14 001 27.2		29.2	29 • 2	27.2	29.2	29.2	29.2	29.2	29.2	21.2	29.2	29.2	29.2	20.2	29.2
GE 120001 27.2		29.2	23.2	29.2	29.2	29.2	29.2	29.2	29.2		29.2	29.2	29.2	29.2	29.2
30 10 00 C		. , • .	2,72			2	L . • L	27.0							. / • •
UC 100001 44.5	45.5	47.2	41.2	47.2	47.2	47.2	47.2	47.2	47.2	4	47.2	47.2	41.2	47.2	47.2
SE 90001 44.5		47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2
GE 6 'J 1 44.5		47.	47.2	47.4	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2
GE 77371 44.9		47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5
UE 67001 45.2		47.8	47.5	47.8	47.8	47.9	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8
68 50001 45.2	47.2	47.3	47.5	47.8	47.8	47.8	47.8	47.8	47.5	47,2	47.8	47.8	47.8	47.8	47.8
GE 45001 45.8	47.8	49.5	48.5	48.5	48.5	43.5	48.5	48.5	48.5	40.5	48.5	48.5	49.5	49.5	48.5
- 6E 4"331 51•2		53.3	53.3	53.8	53.8	53.8	53.8	53.8	53.8	5 7 . ñ	53.8	53.8	53.8	53.8	53.8
0E 31301 52.5		55.1	55 • 1	55.1	55.1	55.1	55.1	55.1	55.1	5 . 1	5.1	55 - 1	55.1	55.1	55.1
GE 30001 53.5	- 55•a	54.5	56.5	55.5	56.5	56.5	56.5	56.5	56,5	56.0	56.5	56.5	56.5	56.5	56.5
55 252 A 69.8		74.5	74 . 3	74.9	74.B	74.8	74.8	74.9	74.8	711.0	74.€	74.8	74.8	74.8	74. В
0E 27401 12.8		77.7	77.7	77.1	77.7	77.7	77.7	17.7	77.7	77.7	71.7	77.7	77.7	77.7	77.7
6E 19001 73.8		77.4	79 . 4	77.4	79.4	77.4	79.4	79.4	79.4	70.4	79.4	79.4	79.4	79.4	79.4
CE 15001 76.7		02.4	32.4	52.4	92.4	82.4	82.4	02.4	9 Z , u	87.4	92.4	82.4	82.4	62.4	82.4
of 1:01 06.7	92.0	94.0	94.4	94.7	95.3	95.3	22.0	95.0	96.C	96.43	25.3	96.7	96.7	96.7	96.7
of 19901 #7.0	93.7	94.7	95.3		0/ 0	0, 0	0.4	96.0	97.0	97.1	97.3	97.7	97.7	97.7	97.7
05 9231 87.40		95.7		95.7	96• D	96.0	96.C			92.7	99.7	99.0	97.1	99.0	99.0
35 PLC1 87.4		75.7	96.7	97.3 97.3	97.3 97.3	97.3 97.3	97.3	47.3	98.3		98.7	99.0	99.0	99.0	99.0
06 7001 67.4			96 • 7 96 • 7		97.3		97.3	97.3	98.3	99.7	98.7	99.0	99.0	99.0	99.0
65 623 87.4		95.7 95.7	96.1	97.3 97.u	97.3	97.3 97.3	97.3 97.3	97.3	99.3	95.7	98.7	99.0	99.3	99.0	99.0
11. 6631 87.4	,,,,	, , , ,	76 • 7	97.0	71.3	71.03	91.3	71.3	49.3	4".1	90.1	99.0	44.7	77.6	77.0
ur 5011 87.4	94.7	75.7	95 • 7	97.3	97.3	97.3	97.3	97.3	98.3	9°.7	98.7	99.0	99.0	99.0	99.0
GF 403 87.4		25.7	97.	97.3	97.7	97.7	97.7	97.7	96.7	90.7	29.0	99.3	99.3	99.3	99.3
55 3601 57.4		95.7	37.3	97.3	97.7	97.7	97.7	97.7	39.0	90.3	97.3	99.7	99.7	99.7	99.1
65 7031 87.4		95.7	97.	97.3	27.7	97.7	97.7	97.7	99.0	99.3	99.3	99.7	99.7	99.7	99.7
6E 1001 67.4		95.7	97.3	97.3	97.7	97.7	97.7	97.7	99 · C	90.3	99.3	99.7	120.0	100.0	100.0
								• • •	,	. • -				-0300	
5E 21 87.4	94.7	95.7	97.j	97.3	97.7	97.7	97.7	97.7	99.0	90.3	99.3	99.7	103.0	100.0	100.0

GLOBAL CLIMATOLOGY BRANCH USAFETAC AIR 4LATHER SFRVICT/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY COSERVATIONS

STATION NUMBER:	PERIOD OF RECORD: 78-87														
										MONTH			(LST):	WFF	
	• • • • • •	• • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • • • • • • • • • • • • • • •		• • • • • • • •		• • • • • • •	• • • • • • •	• • • • • • •	• • • • • •	• • • • • • • • • •
CEILING			_					HUNDR ED!							
10 1 61	SE	Gį	⊌F.	GE	GE	GE	GE.	GE	GE	∴F	66	GE	Ģ€	GE	GE
FCE / 160	9 1	5.3	63	4 3	43	32	24	<i>2</i> 7	16	17	10	9	5	4	O
	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • •	• • • • • • •	• • • • • • •	• • • • • • •		• • • • • • •	• • • • • • • • • • • • • • • • • • • •
NO CETE 1 21.9	23.6	23.7	24 • 2	24.5	24.7	24.8	24.8	24.9	24.5	24.7	24.9	24.9	24.9	24.9	ن • 5 5 2
6E 200011 25.5	27.4	27.7	28.2	23.6	26.8	25.9	28.9	29.7	29.0	29.0	29.0	29.0	29.1	29.1	29.1
6E 181401 25.5	27.4	27.7	29.2	23.6	26.8	28.9	28.9	29.3	29.0	20.0	29.0	29.0	29.1	29.1	29.1
UE 160001 25.5	27.4	27.7	20.2	23.6	28.8	28.9	23.9	29.0	29.0	27.0	. 29.0	29.0	29.1	29.1	29.1
GE 140001 25.5	27.4	27.7	28.2	29.6	26.8	28.9	28.9	29.0	29.0	29.0	29.0	29.0	29.1	29.1	29.1
⊎E 139001 35.5	27.4	27.7	28.2	28.6	28.8	28.9	23.9	29.0	29.0	20.7	27.0	29.0	29.1	29.1	29.1
GE 107001 36.3	39.3	39.8	40.4	41.0	41.3	41.4	41.4	41.6	41.7	41.7	41.8	41.8	41.8	41.8	41.9
SE 9:00 36.3	39.3	39.0	43.4	41.0	41.3	41.4	41.4	41.6	41.7	41.7	41.0	41.8	41.8	41.8	41.9
oE o1001 36∙3	39.3	39.9	43.4	41.0	41.3	41.4	41.4	41.6	41.7	41.7	41.8	41.8	41.8	41.8	41.9
GE 70001 36.3	39.4	39.8	43.5	41.1	41.3	41.4	41.4	41.6	41.7	41.7	41.8	41.8	41.9	41.9	41.9
GE 63001 36.4	39.4	39.9	40.5	41.1	4].4	41.4	41.5	41.7	41.5	41.9	41.9	41.9	41.9	41.9	41.9
GE 51321 35.9	39.9	40.4	41.3	41.6	41.9	41.9	42.0	42.2	42.3	47.3	42.4	42.4	42.4	42.4	42.4
UE 45 JJ 37.1	40.1	47.6	41.2	41.8	42.1	42.1	42.2	42.4	42.5	47.5	42.6	42.6	42.6	42.6	42.6
68 40001 42.9	46.2	46.7	47.4	47.9	48.2	49.3	48.3	49.5	48 . €	42.5	43.7	48.7	43.7	48.7	48.8
GE 35071 44.5	47.9	48.4	49.0	49.6	49.9	49.9	50.C	50.2	50.3	5^.3	50.4	50.4	50.4	50.4	50.4
us 35331 46.4	49.9	57.3	51.0	51.6	51.9	51.9	52.0	52.2	52.3	57.3	52.4	52.4	52.4	52.4	52.4
9E 25031 62.0	67.2	67.7	69.3	69.9	79.3	70.5	73.5	7 C . B	70.9	71.0	71.1	71.1	71.2	71.2	71.3
a£ 2130 64.1	64.5	12.5	71.3	72.3	72.7	72.8	72.9	73.2	73.3	77.3	73.5	73.5	73.6	73.6	73.E
66 1480∳ £5•1	70.8	71.5	72.1	73.6	74.0	74.2	74.2	74.6	74.6	74.7	74 + 8	74.8	74.9	74.9	75.0
uf 1700 67.1	73.1	77.9	75 • J	75.9	76.3	76.6	76.6	77.7	77.1	77.1	77.3	77.3	77.3	77.3	77.5
on assn: 77.7	85.8	35.7	88.5	90.3	91.0	91.4	92• €	92.7	93.2	97.4	93.6	93.8	93.9	93.9	94.5
SE 1131 79.7	F7.2	88.5	93.5	92.5	92.7	91.2	93.8	94.5	95.0	92	75.4	95.6	95.7	95.7	95.8
UE 2001 79.€	37.7	39.0	91.3	92.3	93.5	94.0	94.5	95.3	95.8	94.0	95.2	96.4	96.5	96.5	96.7
UF #35 79.3	- 3 • J	97.4	91.8	93.3	94.0	94.5	75.1	95.9	76.4	96.6	96.8	97.0	97.2	97.2	97.3
UF 7,31 77.6	33.7	90.0	92.7	94.3	95.0	95.5	96.1	96.9	97.5	97.7	97.9	99.1	98.2	99.2	98.3
uE 6311 79.6	33.5	7^.4	92.9	94.5	95.3	95.8	96.4	97.2	97.8	90.0	78.2	98.4	98.5	98.5	98.6
65 S (1 79.7	ня, 9	97.5	93.0	94.6	95.5	96.0	96.6	97.4	98 • C	90.7	98.5	98.7	98.8	98.8	98.9
4271 77.7	99.4														99.2
0E 3001 79.7	87.4	≯C.5 ₹J.0	93.3 93.3	94.9	95.8 95.8	96.3 96.3	96.) 96. 4	97.7 97.7	98.4	90.5	9.8°	99.0 99.0	99.1	99.1 99.1	99.3
GE 2.31 73.7	57.1	77.7	73.3	99.9	95.8	96.3	97.6	97.7	98.4	54.5 59.7	39.9	99.3	79.5	99.5	99.6
6E 147 73.7	89.1	22.7	93.3	95.3	95.9	96 • 3	97. G	97.B	98.5	50.7	94.9	99.3	99.5	99.5	99.5
	., , , , ,	7 . • 1	7,113	7 14 2	75. 7	70 + 3	41.0	71.5	70.0	7-1	77.7	77.3	77.3	7763	77.9
65 31 79.7	99.1	97.8	93.4	95.0	95.9	96.4	97.C	97.0	98.5	90.7	99.0	99.3	99.5	99.6	100.0

GLUBAL CLIMATOLOGY BRANCH USAFETAC AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURPENCE OF CEILING VEHSUS VISIBILITY FROM HOURLY OBSERVATIONS

STATION NUMBER:	221133	5111	ON NAME	: MURM	ANSK US	S P				PERIOD	0F @EC(0000-02	ពព
	• • • • • •	• • • • • • •	• • • • • • •	• • • • • • •		visibil					• • • • • • •	• • • • • • •	• • • • • • • •	• • • • • • •	
10 61	GF	50	GE	GE	GE.	65	GE .	GE	GE.	nE.	61	SE	GĘ	GE	GE
FLET 1 100	70	35	6.3	4 8	40	32	24	5.0	16	12	13	, a	5	31.	U U
													_		
NO CEIL ASAR	26.8	25.9	20.6	26.8	26.8	26.8	26.6	26.8	26 • €	26.0	26.8	26.3	28	26.8	26.8
ue 200001 22.2	27.2	29.2	29.4	29.2	29.2	29.2	29.2	29.2	29.2	20.0	21.2	29.2	29.2	29.2	29.2
JE 167001 29.2	27.2	29.2	27.2	22.2	29.2	29.2	29.2	29.2	29.2	20.2	29.2	29.2	29.2	29.2	24.2
65 16 0001 28.2	29.2	29.2	27.2	27.2	29.2	29.2	27.2	29.2	29.2	29.3	29.2	29.2	29.2	27.2	29.2
6E 140001 29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	25.2	29.2	29.2	29.2	27.2	29.2
GE 129gg 19.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	22.0	79.2	29.2	29.2	29.2	29.2
6E 103031 40.5	42.3	42.6	42.6	47.6	42.6	42.6	42.6	42.5	42.6	42.6	42.6	42.6	42.6	42.6	42.6
uE 91ug 40.5	42.3	42.5	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
GE 8707 40.5	42.3	42.6	42.6	42.0	42.6	42.6	42.6	42.6	42.6	47.6	42.6	42.6	42.6	42.6	42.6
GE 71001 43.5	42.3	42.6	42.6	42.6	42.6	42.5	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
95 63331 43 . 5	42.3	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	47.5	42.6	42.6	42.6	42.6	42.6
GE 50001 41.9	43.6	44.3	44.3	44.5	44.5	44.0	44.C	44.3	44.0	44.0	44.0	44.9	44.3	44.0	44.0
GE 45.71 42.6	44.3	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7
GE 4:001 47.4	49.1	49.5	47.5	49.5	49.8	49.8	49.8	49.9	49.8	47.8	49.8	49.8	49.8	49.8	49.8
GE 35001 50.5	52.2	52.0	52.5	52.6	52.9	52.9	52.9	52.9	£2.9	5	6.2.9	52.9	52.9	52.9	52.9
0E 30001 51.9	53.6	54.3	54 • 3	54.3	94.3	54.3	54.3	54.6	54.6	54.4	٠4.6	54.6	54.6	54.6	54.6
65 2500 1 66. 0	58.7	69.4	69.3	09.8	70.1	70.1	73.1	70.4	70.4	77.8	70.8	70.8	7.3.8	70.8	70.8
65 21031 64.4	71.1	71.8	72.2	72.2	72.5	72.5	72.5	72.9	72.9	77.2	73.2	73.2	73.2	73.2	73.2
GE 18001 70.1	72.9	73.5	73.9	73.9	74.2	74.2	74.2	74.6	74.6	74.2	74.9	74.9	74.9	74.9	74.9
UE 15001 70.8	73.5	74.2	74.5	74.6	74.9	74.9	74.9	75.3	75.3	71.6	75.6	75.6	75.6	75.6	75.6
95 1290 1 79.0	94.9	86.3	96.5	87.3	P7.6	87.6	88.3	89.7	89.0	80.3	99.5	89.3	99.7	89.7	89.7
6E 17501 90.4	۶7.3	99.7	ز. وم	87.7	96.4	90.4	91.1	91.4	91.8	92.1	92.1	92.1	92.4	92.4	92.4
GE 979 81.8	40.7	97.0	93.4	91.1	91.8	91.8	92.4	92.9	93.1	97.5	93.5	93.5	93.8	93.8	93.8
UF 9JJI 92∙1	99.7	91.1	91.4	92.1	92.8	92.8	93.5	93.8	94.2	94.5	64.5	94.5	94.8	94.8	74.8
55 7JD1 83.5	91.8	₹3.1	94.3	95.9	96.6	96.6	97.3	97.9	28.3	92.6	78.6	98.6	24.5	99.0	99.0
of 6.01 83.8	92.1	93.5	95 . 2	96.2	26.9	96 • 9	97.6	98.3	98.6	90.3	99.0	99.0	99.3	99.3	99.3
GE 5001 83.8	92.1	93.5	95 • 2	96.2	46.9	95.9	97.6	98.3	98.6	90.7	47.U	99.0	99.3	99.3	99.3
JE 433 83.8	92.1	93.5	95.5	95.6	97.3	97.3	97.9	¥8.6	19.5	97.3	99.3	99.3	79.7	99.7	99.7
מיצה וסני שם	9	¥3.5	95.5	96.6	47.3	97.3	98.3	99.	39.3	92.7	57.7	99.7	100.0	100.0	100.0
65 _ 13 ji 93.8 .	72.1	93.5	75 • 5	46.6	97.3	97.3	98.3	99.7	c9. ?	90.7	99.7	99.7	173.0	100.0	100.0
							93.3	79.5	99.3	90.7	99.7				
65 109 1 83.8	92.1	93.5	95.5	46.6	07.3	97.3	99.3	99.	44.3	40.1	47.1	99.7	100.0	100.0	100.0
65 10M 83.8 66 01 83.8		93.5 93.5	95.5 95.5	96.6	97.3	97.3	98.3	99.3	99.3	97.7	99.7				100.0

GLOBAL CLIMATOLOGY BRANCH USAFETAC

PERCENTAGE FRIQUENCY OF OCCURRENCE OF CFILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

AIR ACATHER SERVICEMAG

STATION NUMBER: 201130 STATION NAME: MURMANSK USSR										F(*10D OF PECORD: 76-R7 MONTH: JUN FOURS(LST): D3DN-D5CD							
EILING	• • • • • •	• • • • • • •	• • • • • •	• • • • • • •			ITY IN I				• • • • • • •	• • • • • • •	•••••	• • • • • • •	•••••		
19 61	75	G E	45	ĢĒ	65	GΕ	G٢	GE	GE	·L	51	GE	t, f	GE	GE		
FEET 160	9.3	9.5	60	4 ñ	¥ 3	32	2.4	24	1 6	1.7	1 .,	3	5	4	Đ		
••••••	• • • • • •	• • • • • • •	• • • • • •	• • • • • • •		• • • • • • •	• • • • • • •	• • • • • • •		• • • • • • •			• • • • • • •	• • • • • • •			
0 CETE 1 21.4	22.5	23.6	23.1	23.6	24.1	24.1	24.1	24.1	24.1	24.5	24.5	24.5	24.5	24.5	24.5		
E 21001 24.1	25.2	26.2	26.5	27.2	27.6	27.5	27.6	27.6	27.€	21.3	27.9	27.9	27.9	27.9	21.9		
5 187UD _4•1	26.2	26.2	26.5	27.2	27.6	27.6	27.6	27.5	27.6	27.3	27.9	27.7	21.9	27.9	27.9		
5 15 Juni 24.1	24.2	26.2	76 . 0	27.2	27.6	27.6	27.6	27.6	27.6	27.9	~7.9	27.9	27.9	27.9	27.9		
5 14 051 24-1	26.2	26.2	26,6	27.2	27.6	27.6	27.6	27.6	27.6	2 . 9	21.5	27.9	27.7	27.9	27.9		
5 123001 24.1	20.2	26.2	26.5	27.2	27.6	27.6	27.6	27.5	27.6	2 ' • •	77.7	27.9	27.7	27.9	21.9		
5 100001 35.5	75.6	38.5	39.3	47.3	44.7	40.7	41.0	41.3	41.0	41.4	41.4	41.4	41.4	41.4	41.4		
n 9003 1 36.6	73.6	3 ° • ₺	39.3	40.5	40.7	47.7	41.0	41.3	41.0	41.4	41.4	41.4	41.4	41.4	41.4		
5 0 301 35.5	73.6	33.E	77.3	40.3	46.7	40.7	41.0	41.0	41.0	4 ! . 4	41.4	41.4	41.4	41.4	41.4		
E 7:501 35.5	39.6	33.4	39.3	47.3	46.7	40.7	91.0	41.7	41.C	4: +4	41.4	41.4	41.4	41.4	41.4		
5 0°03} 3505	17.6	38.6	39.3	43.3	4C.7	40.7	41.0	41.7	41.0	41.4	41.4	41.4	41.4	41.4	41.4		
5 - 60001 36+2	39.3	39.3	40.0	41.0	41.4	41.4	41.7	41.7	41.7	4 7 - 1	43.1	42.1	42.1	42.1	92.1		
F 45 30 36 a F	79.7	39.7	40.3	41.4	41.7	41.7	42.	42.1	42.1	4~,4	42.4	42.4	42.4	42.4	42.4		
F 40 051 42.1	45.2	45.2	45.9	46.7	47.2	47.2	47.6	47.6	47.6	47.7	47.9	47.9	47.9	47.9	47.9		
5 35 JON 47.1	45.2	46.2	45.9	47.9	48.3	48.3	48.6	48.6	49.6	40.7	49.0	49.0	44.0	49.0	45.0		
F 30001 45+5	43.6	49.5	49.3	50.3	57	50.7	51.0	51.3	°1.0	51.9	51.4	51.4	51.4	51.4	51.u		
C 27 Jul 61.7	65.6	56.6	67.2	69.3	68 • 6	69.0	67.3	69.3	69.3	67.7	19.7	69.7	69.7	69.7	69.7		
E 21 del 65.2	7 3	7 1 . 3	71.J	72.1	72.4	72.8	73.1	13.1	73.1	7 2 . 4	73.4	73.4	73.4	73.4	73.4		
6 15 ml 65.9	71.:	71.0	71 . 7	72.5	73.1	73.4	73.8	73.8	73.9	70.1	74.1	74 • 1	74.1	74.1	74.1		
f 15001 66.7	71.4	71.4	72 • 1	73.1	73.4	73.8	74.1	74.1	74.1	74.5	24.5	74.5	74.5	74.5	74.5		
E 12661 79.1	°1.5	5 1 . 7	83.1	84.3	86.2	36.6	86.9	07.2	A7.2	Hº . 3	5 5 . 3	89.3	93.7	8 º • 3	88.3		
E 11601 7448	- 2.4	33.1	54.5	56.2	87. ¥	89.3	88.6	89.0	99.3	90.3	93.3	90.3	93.3	90.3	90.3		
9301 76.9	C4.5	35.2	86 • 6	68.3	9C+ 0	90.3	90.7	91.2	91.4	97.4	92.4	92.4	92.4	92.4	92.4		
F PUNI 76.9	89.5	35.2	P6.5	6° . 3	92.3	97.7	91.0	91.4	72.1	97.1	93.1	73.1	93.1	93.1	23.1		
I 7001 77.2	45.9	36.6	39.3	97.7	92 • B	93.1	93.4	93.9	04.5	91.4	95.5	95.5	95.5	45.5	95.5		
6 201 77.0	53.2	87.2	87.7	91.4	73.4	93.8	94.1	94.5	25.2	46.2	96.2	95 . 7	96.2	96.2	96.2		
1 17.2	# 5 • 6	37.3	96.3	52.1	94.1	94.5	95.2	95.5	96.2	41.2	27.2	97.2	97.2	97.2	97.2		
E 403 77.2	26.0	a 7 . 9	91.7	92.0	45 · 2	95.9	96.9	97.6	c8 • 3	97.7	94.7	99.7	09.7	99.7	99.7		
5 300 1 77.2	# 5 . t	37.9	93.7	97.6	32.5	95.9	76.9	97.6	98.3	90.7	99.7	97.7	99.7	99.7	99.7		
5 200 77.2	96.6	47.9	90.1	92.0	95.2	95.9	96.9	97.6	28 • 3	43.	99.7	99.7	79.7	49.7	99.7		
E 1301 77.2	-5.5	5 7 · 4	91.1	92+5	45.2	95.9	96.9	77.6	38.0	107.1	177.0	100.3	100.0	100.0	100.0		
-1 77.2	84.6	87.9	16.7	92.6	95.2	95.9	96.7	17.5	28.6	100.3	170.0	100.3	170.0	100.0	100.0		
																	

DEUPAL CELMATOLOGY FRANCH A IP WEATHER SERVICE/MAC

PERCENTAGE FRIQUENCY OF OCCURPENCE OF CELLING VIRSUS VICIBILITY FROM HOURLY CASERVATIONS

STATION NUMBER: 201133 STATION NAME: MURMANSK USSR

FERTION OF FECORD: 78-87 MONTH: 389 HOURS(EST): 8609-08CG VISIBILITY IN HUMOREDS OF METERS GC GE GC GE GE 40 32 24 27 16 CEILING 5€ ٦ ا IN | 61 - 5851 | 160 et 64 43 en JF 63 5 4 4 10 40 CETE | 16.7 49.4 19.2 19.2 19.2 19.2 19.2 19.2 19.2 19.2 as 100 and 19.5 :1.7 21.6 21.5 21.0 31.6 21.6 31.6 21.6 21.6 21.6 21.6 21.6 -1.6 05 190001 1-.5 05 100001 19.5 05 100001 18.5 06 100001 14.5 21.3 21.3 21.5 21.6 21.6 21.6 21.0 21.6 21.6 21.6 21.0 21.6 21.6 21.6 21.6 21.6 21.3 21.6 21.0 21.6 21.6 21.5 21.6 21.6 21.6 21.6 21.3 21.€ 31.6 21.6 21.6 21.6 21.6 21.6 £1.5 21.6 1.3 21.6 21.0 21.5 21.6 37.3 27.3 27.7 27.7 27.7 ∪5 10m074 32•1 75.2 30.2 76.2 10.6 37.3 37.3 27.3 37.3 77.3 37.3 77.3 17.1 77.3 77.3 37.3 11.3 7 301 37.1 8 301 37.1 7 301 37.1 6 7071 32.1 37.3 77.3 37.5 27.5 37 · 3 37 · 3 77.3 37.3 37.3 37.3 37.3 37.3 37.3 37.3 37.3 37.? ??.3 ??.3 37.3 17.3 37.3 35.6 37.3 36.2 35.5 37.3 37.3 37.3 37.3 37. 7 37.3 27.3 77.3 37.3 35.5 4750| 37.4 4750| 32.4 4 00| 36.9 3500| 34.3 30.6 75.6 42.2 27.0 37.6 37.6 27.6 37.6 77.6 37.6 17.6 37.6 77.6 37.4 47.7 44.7 36.9 37.3 37.0 37.6 37.6 37.6 37.€ 43.9 37.€ 37.6 37.6 37.6 37.0 37.6 43.6 43.6 43.7 44.5 44.6 45.3 45.3 :0001 30.0 45.0 45.6 44.6 44.7 46.0 46.3 46.3 46. 46.3 46.3 44.3 2 30| 54.7 2 31| 56.5 10 01| 57.6 1500| 52.6 1500| 71.9 64.1 64.6 67.6 67.6 61.7 65.8 62.3 63.3 53.4 03.6 64.1 64.1 64.1 64.1 (4.1 64.1 64.1 64.1 t-4 - 1 64.1 65.2 66.6 67.6 65 • 2 67 • 2 68 • 6 56.6 67.6 69.7 65.5 65.5 65.9 06.6 56.5 65.6 56.6 66.6 46.6 67.6 69.0 87.5 67.6 69.3 87.9 65.2 60.5 67.4 66.9 68.3 67.E 67.6 69.0 67.6 67.6 (7.0 67.0 31.5 03.3 c4 . 7 45.5 85.7 87.6 47.5 1 72.5 -2.6 -2.6 34.7 93.3 87.1 87.5 -1.8 88.5 89.5 92. 97.6 93.5 23.6 93.6 96.6 92. 92.0 93.4 95.1 55.4 56.6 96.4 88.2 89.5 9.5 47 89.2 90.2 91.3 51.3 91.3 91.3 91.3 91.3 49.5 91.3 9...2 93.7 7:1 79.2 92.0 35.5 yr.c - € • 4 93.7 94.1 25.5 90.0 25.5 75.5 96.5 94.5 96.5 96.5 96.5 9 1 79.2 9 1 79.2 7 ...1 79.2 -1.1 9...5 97.7 93.4 . . . 6 74.15 95.2 97.6 47.6 97.6 97.6 47.6 97.6 - 5.1 57.1 9]+5 9]+6 9 1 3 ? . 95.5 96.9 ,7.: ,7.: 98.6 39.7 29.7 98.6 73.7 49.5 98.6 32.6 4-. 19 33.0 99.5 40.0 33.7 29.1 99.5 1 14.2 37.: 95.5 46.0 96.9 73.7 95.5 76. 7 47.3 29. ٠,٠, 99.7 99.7 97.7 100.0 11 79.0 17.1 ,:. " ~ 5.7 91.5 93. 73.7 ¥5.5 90.9 ,7. . 99. 14.0 59.7 24.7 99.7 100.0

GEOGRE CLIMATCLOGY TRANCH CAFETAC CAMASSIEVAS STRATES

PERCENTAGE FREQUENCY OF OCCUPPENCY OF CEILING VERSUS VISIBILITY FROM FOURLY OBSERVATIONS

STATION NUMBER: 201137 STATION NAME: MURMANSK USSR

PETIOD OF PECORD: 78-87 MONTH: JUN: HOURS(EST): 0900-1100

												MONTH				0900-11	00
CEILING VISIBILITY IN FUNDREDS OF MITTERS														•••••			
IN		51	55	6.5	G.F.	GE	GΞ	GE	GE	GE	GE	'- E	61	GE	Ն £	GĘ	GΕ
FEE	T į	160	9.0	€2	60	40	43	32	2.4	2.7	16	1 7	1.3	ë	5	4	- " O
• • • •	• • • • •	• • • • •	• • • • • •	• • • • • • •	• • • • • •	• • • • • •	• • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • •	• • • • • •		• • • • • •	• • • • • •	• • • • • • •	
K 2 C		17.6	18.5	18.5	10.0	12 5		10 5	10.0		1	1.5					
., , ,			15.3	.6.5	19.5	19.5	18.5	18.5	18.5	18.5	15.5	1	13.5	18.5	18.5	18.5	18.5
50.2	20031	23.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2
05 L	10001	20.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.5	21.2	21.2	21.2	21.2
	67331		21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	¿:. · ·	21.2	21.2	21.2	21.2	21.2
5F 1	97.00E	23.2	71.2	21.2	21.2	21.4	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2
u£ 1.	160-2	23.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2
	J. J. J. J.	71 (34.2	39.2	•						••						
)		34.2	34.5	34.5 34.5	35.3	35.6	35.6	35 • 6	35.6	35.6	35.6	35.6	35 • 6	75.6	35.6	?5∙6
	3 301		34.2	34.	34.5	35.3 35.3	35.6 35.6	35 • 6 35 • 6	35.6 35.6	35.6 35.6	35.€ 35.6	35.6 35.6	35.6	35.6	15.6	35.6	35.6
	7. 30		24.2	34.2	34 . 0	35.3	35.6	35.6	35.6	35.6	35 • 6	31.6	15.6	35 • 6 35 • 6	35.6	35.6	35.6
	chasi		34.2	34.2	34.5	35.3	35.6	35.6	35.6	35.6	35 • 6	30.6	25.6	35 • 6	35.6 35.6	35.6 35.6	35.6
	, .,	•••		3 * • • •	.4.5	3 / • 3	30	3,.0	,,,,	2110	,,,,		- 3 • 6	23.0	× 3 • 6	23.6	35.6
	st an E		34.6	24.5	34 . +	35.6	76. D	36.3	30.0	35.3	76.0	34.5	15.0	36.9	₹6.3	35.0	36.0
	+5.00 F		75.3	35.3	35 + 5	35.3	36.6	36 .6	36.6	36.€	36 . €	31.6	35 . 6	36 • 6	₹6.6	36.6	36.6
	41aa1		30.4	33.7	39.3	39.7	40.1	40.1	40.1	40.1	43.1	4 ~ . 1	9.3 - 1	47.1	40.1	40.1	40.1
	انتيادة		39.7	39	39.4	43.1	40.4	40.4	43.4	47.4	40.4	4 ~ . 4	4).4	47.4	40.4	47.4	46.4
r E	30 ua	30.4	4 D . E	41.1	41.4	42.1	42.5	42.5	42.5	42.5	42.5	47,5	47.5	42.5	42.5	42.5	42.5
65	21 301	e, o	5:.3	63.7	64.3	64.7	65.4	65.4	65.4	05.4	65.4	65.4	65.4	65.4	55.4	65.4	65.4
	21.691		65.6	05.4	(6.0	67.5	66.2	68.5	69.5	68.5	58.5	60.5	1.0.5	69.5	63.5	68.5	66.5
	18,11		66.4	57.1	67.5	63.2	68.8	67.2	59.2	69.2	69.2	69.2	49.2	69.2	67.2	69.2	69.2
5.5	10201	64.4	64.8	67.5	69.1	7~.5	71.2	71.6	71.6	71.6	71.6	71.6	71.6	71.5	71.6	71.6	71.6
C.E	10001	70.4	m 3 • 2	53.9	P4.9	87.5	38.0	88.7	89.7	89.7	90.1	9 3 - 1	30.4	90.9	90.8	90.8	90.8
CE.	nuni	7: 0	16.3	87.0		0.0											
U.S.		79.5	47.7	9 F . W	h8 • ∪	97.4	91.4	92.1	92.5	93.2	33.5	7 . 6	23.6	94.2	74.2	94.2	94.2
, c	F 0.51		47.7	50.4	60.4 99.4	91.4 91.5	93.2 93.2	93.8 93.8	94.2	94.9	95 • 2	91.7	75.5	95.9	95.9	95.9	95.9
, -		72.	7.7	49.7	90.4	92.4	94.2	93.5	95.2	94.9 96.2	95.2 96.9	96.3 96.3	75.5	95.9	95.9	95.9	95.9
1, 5		77.5	- 7 - 7	99.7	90.5	93.2	94.5	95.2	95.5	76.E	97.3		97.5	97.6 97.9	97.9	97.6	97.6
	٠.			: 7 • 1	70.5	, , , 2	74.5	7.7 0 6	73.3	70.0	-1.3	7 • 1	41.6	91.9	41.4	97.9	97.9
u E	1.1		3.0	39.0	91.1	93.5	95.2	95.9	96.6	97.6	28.3	9".3	90.6	99.5	99.3	99.0	99.0
1		77.5	24.	67.0	31 • 1	23.5	95.2	95.2	26.9	93.3	99.0	9	7	100.7	100.0	150.0	100.0
G €.		74.5	2 d • 1.	47	91.1	93.€	95.2	96.2	96.9	98.3	9.0	9	.7.7	100.0	100.0	130.0	100.0
₩.		7:.5	én• •	1,900	91.1	97.6	95.2	96.2	96.9	98.3	33.C	90.2	99.7	107.0	100.0	100.0	100.0
to C	1074	70.5	. i	40.00	4.43	. 3	45 € 2	76.2	96.9	98.3	30.0	97.	99.7	100.0	1,00.0	100.0	100.0
1, 5	1	79.5		39.	91.1	91.5	·5.2	95.2	96.9	98.3	99.0	, 7 . 3	2.7. *	103.3	10" 0	1.00	100.0
													• • • • •	103+3	105.0	100.0	100.0

GLOBAL CLIMATOLOGY BRANCH USAFETAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

AIR ALATHER SPRVICE/MAC

FE9100 OF FECOPO: 78-87 STATION NUMBER: 20113 - STATION NAME: MURMANSH USSR MONTH: JUN HOURS(LST): 1200-1400 VISIBILITY IN FUNDREDS OF METERS 001L196 GC. IN | 01 FEET | 160 GΕ ٥ç 51 SE AI GŁ 5£ 27 GE GF GE 2 4 43 32 53 16 10 40 CEIL | 16.3 16.5 16.6 16.5 16.0 16.6 16.6 16.6 16.6 16 ⋅ € 14.5 15.6 16.6 16.6 16.6 16.5 5E 202001 21.1 21.5 21.5 21.5 21.5 21.5 21.5 21.5 21.5 21.5 21.5 6E 157EJ 21.1 6E 16 03 21.1 6E 14[03] 21.1 21.5 120001 21.1 21.5 21.5 21.5 21.5 65 100001 33.6 35.6 35.5 35.6 36. U 31.0 3€.0 36.7 36.0 36.0 36.0 36.0 36.0 36.0 36.0 36.0 9'unl 33.6 8'001 33.6 3r . n 3t . n 36.0 36.0 36.0 36.0 76.0 35.6 35.6 35.6 35.6 35.0 36.0 36 • O 36.0 36.0 36.0 36.0 36.7 76.0 76.0 36.3 36.0 36.0 36.0 36.0 6 E 35.6 36.0 76 a Q 36.0 36.9 70001 33.6 34.0 35.€ 35.4 35.5 35.5 36.0 36.0 36.0 36.0 36.0 36.0 36 . C 6 '401 33.6 35.6 35.6 35 . 6 36.3 36.0 36.0 76.3 1. 5 50001 33.9 45301 33.9 16.0 36.3 34.3 34.7 **?6.**3 36.0 36.3 36.3 36.3 36.3 76.3 36.3 36.3 36.3 36.3 36 . 3 16.3 36.3 36.3 36 . 3 36.) 42.6 36.3 36.3 36.3 36.3 36.3 36.3 30.0 36.3 4 001 47-1 6.5 42.0 42.0 42.9 42.9 42.9 42.9 42.9 42.9 42.9 42.9 42.9 42.9 42.9 30.10| 41.9 άĒ 44.3 99.3 44.3 44.6 44.6 44.6 44.6 44.6 44.€ 44.6 44.6 44.6 44.6 44.6 44.6 30001 43.9 46.7 47.4 47.4 2° 111 66.8 69.6 70.2 73.2 70.2 73.2 70.2 70.2 73.2 70.2 2 1631 67.2 72.2 72.7 72.0 72.7 72.7 72.7 73.4 72.7 1~.7 7'.4 72.7 73.4 72.7 72.3 72.7 12.7 72.7 12.7 72.7 72.7 GΕ 73.4 73.4 73.4 73.4 73.4 73.J 73.4 75.6 75.8 97.1 ∵, F 98.3 38.2 59.3 93.0 90.7 91.3 91.3 92.4 92.7 93.1 93.1 93.1 93.1 10001 a3.0 07.6 37.0 94.5 94.8 94.8 91.1 91. 7 92.4 92.7 93.1 94.1 94.3 94.8 94.5 94.8 97.3 97.3 7.71 83.4 3). 91.3 92.0 03.1 93.4 95.5 25.5 95.5 95.5 93. 4 94.8 25.2 95.5 95.5 7001 92.4 6001 87.4 97.0 5 € 91.3 92.0 93.4 93.8 94.1 75.2 95.5 gr.g 75.8 95.8 95.8 95.8 95.8 97.6 33.3 91.3 92.4 93.4 95.2 75.5 95.8 97.2 97.6 97.6 97.6 97.6 97.6 1. 5 5001 81.4 91.3 91.7 53.4 94.5 96.5 97.2 92.3 99.3 99.3 09.3 99.3 99.3 99.7 107.3 107.3 107.3 4.01 83.4 11 E 91.5 71.7 93.4 94.5 96.5 97.6 97.9 99.3 99.3 99.3 99.7 99.7 100.3 99.7 99.7 99.7 1301 63.4 71.7 93.4 96.5 97.6 73.3 100.0 100.0 100.0 5 F 93.4 44.5 36.5 97.6 98.5 99.3 99.7 100.0 100.0 190.0 130.0 100.0 93.4 24.5 97.6 99.3 99.7 76.5 79.3 100.1 100.0 100.0 97.6 46.5 98.3 99.3 79.7 107.0 107.0 100.0 100.0 100.0

GLOBAL CLIMATOLOGY BRANCH USAFLTAC AIR WLATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCUPPENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

			271130					-				HONTH	. 774 Dt (.	ноияѕ	(LST):	1500-17	
	LING	• • • • • •	• • • • • •	• • • • • • •	• • • • • •	• • • • • • •	•••••	VISIBIL:	ITY IN	HUNDREDS	S OF ME	i	• • • • • • •	• • • • • •	• • • • • • •	• • • • • • •	• • • • • • • •
1		51	GF	GF	ůΕ	3 E	65	GE	GE	GE	GE	SE	G {	S€	GE	GE	G€
FE		100	ΥS	5.7	5.	4.3	40	32	2 4	2.0	16	15	13	В	5	4	C
• • •	• • • • • •	• • • • • •	• • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •
0.6	CEIL I	19.6	18.6	19.6	18.0	19.6	16.6	13.6	18.6	18.6	18.6	10.6	18.6	13.6	18.6	19.6	18.6
υE	200301	2 ? • 1	22.1	22.1	22.1	22 • 1	22.1	22.1	22.1	22.1	72.1	٠٠١ - ١	22.1	22.1	22.1	22.1	22.1
G F	*au001	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	27.1	22.1	22.1	22.1	22.1	22.1
Uξ	160-91	22.1	52.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	25.1	20.1	72 • 1	22.1	22.1	22.1	72.1
	14700		22.1	22.1	22.1	22 • 1	22.1	22.1	22.1	22.1	22.1	27.1	22.1	22.1	22.1	22.1	22.1
G E	15.031	27.1	22.1	22.1	22 • 1	22.1	22.1	22.1	22.1	22.1	22.1	27.1	72.1	22.1	25.1	22.1	22.1
ij۴	100001	32.8	72.8	32.0	32.8	32.8	32.8	32.8	32.8	32.A	32.€	,	72.8	32.9	12.8	32.8	32.8
SE	9.001	32.8	32.8	32.0	32.0	32.9	32 . 8	32.8	32.8	32.8	₹2.8	3 1.5	32 ⋅ €	35.8	32.8	32.6	32.8
٦٠	67301	32.8	12.0	32.8	32 . 0	32.5	32.8	32.8	32.8	32.9	32.8	30 • 8	12.8	32.8	32.8	32.8	32.8
SE	71 JOL		32.8	32.6	32.5	32.8	32.8	32.9	32.3	32.8	32.8	37.9	32.8	32.9	12.8	32.8	32.8
GE	6.3901	32.8	32.8	32.3	32.5	3?•€	32.6	32.8	32.8	32.0	₹2.€	5.7 • 4	32.8	32.9	32+8	32.8	32.8
υF	ומטינ	37.0	75.8	33.8	33.6	33.∂	33.8	33.8	33.6	33.8	73.6	37.9	13.h	33.8	:3.8	35.8	33.€
υE	45301	34.8	34.3	34.0	34.3	34.3	34.8	34.8	34.8	34.8	₹4.5	34.9	34.8	34.8	34.8	34.8	34.8
6 E	41.001	47.7	41.0	41	41.J	41.0	41.0	41.0	41.C	41.0	41.0	41.7	41.Û	41.3	41.0	41.0	41.0
6 E	35001		42.8	4.3 .8	42.8	42.8	42.8	42.8	42.9	42.9	42.8	4.7 • 3	42.8	42.8	42.8	42.8	42.8
5€	30 UO 1	45.5	45.7	45.9	45.9	45.7	45.9	45.9	45.9	45.9	45.5	4. "3	45.9	45.9	45.9	45.9	45.9
u C	25631	72.4	73.1	73.1	73.1	73.8	73.8	74.1	74.1	74.1	74.5	74.5	74.5	74.5	74.5	74.5	74.5
G.F	7. 001	73.8	74.5	74.5	74.5	75.2	75.2	75.5	75.5	15.5	75.9	75.7	75.9	75.9	75.5	75.9	75.9
15	15901	74.5	75.2	75.2	75.2	75.9	75.9	76.2	76.2	76.2	76.6	76.5	76.6	76.6	76.6	76.6	76.6
ti F	15001		75.1	15.9	75.9	76.6	76.6	76.9	76.9	76.9	77.2	77.2	77.2	77.2	77.2	17.2	77.2
GΕ	1200	÷4. P	~ 15 * E	89.3	90.3	91.7	91.7	92.1	93.4	93.4	93.8	۹,۰,۵	53.8	94.5	04.5	94.5	94.5
65	1789¥	25.9	4 0. 0	91."	92.4	93.3	93.8	94.1	95.5	99.5	95.7	90.3	95.4	96.5	96.6	96.6	96.6
GE	()	F6.2	3 3	91.4	92.4	94.1	94.1	94.5	95.9	15.9	96.6	91.6	35.6	97.2	37.2	97.2	97.2
ωE	2631	26.5	7 1. 5	91.4	92.4	94.1	74.1	94.5	95.9	75,7	96.6	44.5	95.6	97.2	97.2	97.2	97.2
5 E	7.171	66.6	91.0	42.1	03.4	95.2	95.2	95.5	96.9	11.0	97.6	91.6	97.6	98.3	93.3	98.3	98.3
o C	6.371	86.9	92.1	93.4	94.8	96 • 6	96.6	96.9	98.3	5 '	79.€	52.7	4 4 * D	99.7	99.7	99.7	95.7
65	5001	56.9	92.1	93.4	94.0	94.0	56.6	96.9	98.3	96.7	99.5	93.3	99.0	99.7	99.7	99.7	99.7
úξ	4.191	€5.0	92.1	93.4	94.4	96.6	36.6	96.9	99.6	98.5	29.3	42.1	99.3	103.0	1 10 - 3	100.0	100.0
1.8	3631	26.9	72.1	9:4	94.4	96.6	96.6	96.9	78.6	98.6	79.7	99.1	99.3	100.0	100.0	100.0	100.0
90	2591	c6.0	42.1	13.4	04.8	46.6	46.6	96.9	98.0	98.5	29.3	99.	97.3	199.0	100.0	100.0	100.0
ÇΓ	1 - 11	A6.5	2.1	93.4	94 . 5	46.6	46.6	96.9	98.6	98.6	99.3	90.3	3.4.3	100.0	120.0	100.0	100.0
∍€		96.9	92.1	93.4	74.5	96.0	36.6	96.9	99.6	98.6	99.3	40.1		100.3		100.0	

SLUPAL CLIMATOLOGY HEANCH USAFLIAC AIR PLATHER SERVICEZMAC

STATION NUMBER: 221122 STATION NAME: MERMANSK USSR

PERCENTAGE FREQUENCY OF OCCURPENCE OF CFILING VERSUS VISIBILITY FROM HOUPLY σ_{MS}_{E} PVATIONS

PERIOD OF PECORD: 78-87

-	•							_				MONTH	: Jtt:	HOURS	(LST):	1830-20	00
		• • • • •	• • • • • •	• • • • • • •		• • • • • •							• • • • • • •	• • • • • • •	• • • • • • •	• • • • • •	• • • • • • • • • •
	14.0						£E.	VISIBIL:	GE GE	GE HIMOREO	S MF ME GE	1EK.	GE	GE	GE	GŁ	ωt
11 FE,6		61 160	ઇ. ૧૨	GE #1	بان 3. با	GE 4 o	ნ:. *F ს	32	? 4	20	1 t	1	10	3	նե	0 E.	G.
				· • • • • • •				• • • • • •									
	• • • • • •	• • • • • •	• • • • • • •		• • • • • • •		•••••										
NO 0	CEIF I	2 7 . 1	23.1	23.1	23.1	23,1	23.1	23.1	23.1	23.1	23.1	27.1	73.1	23.1	23.1	23.1	23.1
ίς.	ser au t	26.1	26.1	26.1	26.1	26.1	26.1	26.1	26.1	26.1	26.1	21.1	26.1	26 - 1	26.1	26.1	26.1
G.E.	180001	25.1	26.1	26.1	76.1	.6.1	26.1	26.1	26.1	26.1	26 • 1	26 + 1	76.1	26.1	26.1	26.1	26.1
GE	161931	26.1	26.1	26.1	26.1	26.1	26.1	26 • 1	26.1	26.1	26.1	21.1	20.2	26.1	26.1	26.1	26.1
	147531		26.1	25.1	26.1	26.1	26.1	26 • 1	26.1	6.1	26 • 1	24.1	26.1	26 • 1	26.1	26.1	26.1
(rabhai	26.1	26.1	26.1	26 • 1	26.1	26.1	26.1	26.1	26 • 1	26 - 1	21.1	26 - 1	26 • 1	26.1	26.1	26.1
L.F	100001	38.6	34.6	38.0	38 • 6	39.1	39. u	39.0	39.5	39.0	39.0	3:.7	39.0	39.0	39.0	39.0	39.0
b.E	40 Ja i		35.6	38.6	33.6	39.0	39.0	39.0	39. Ü	39.3	?9.C	37.7	13.0	39.0	39.0	39.0	34.0
εĒ	80001		38.6	38.6	38.6	39.0	39. D	39.0	39.0	39.0	19.0	22.0	34.0	39.3	19.0	39.0	39.0
(, r	7:39		33.0	38.0	38.6	39.J	79.0	39.0	39.0	39.0	39.3	30.0	?9.C	39.5	₹9.0	39.0	39.0
7,5	6,921	34.6	15.6	38.€	34.6	39.)	39.0	39.0	39. N	39.7	79.0	3	39.0	37.0	19.0	39.0	39.0
ti E	5 601	39.7	39.U	30.0	39.3	39.3	39.3	39.3	39.3	39.3	39.3	37.3	17.3	39.3	39.3	39.3	39.3
υE	4"]]		39.0	39.;	39 • Ü	37.3	29.3	39.3	39.3	39.3	79.3	39.3	29.3	39.3	79.3	39.3	39.3
Üξ	41.301		44.4	44.4	44.4	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7
6.E	35 371		46.8	45.	46.8	47.1	47.1	47.1	47.1	47.1	47.1	4 7 . 1	47.1	47.1	47.1	47.1	47.1
i. E	orbai		47.8	47.8	47.8	48.1	48.1	48.1	48.1	48.1	48.1	4 2 • 1	49.1	48.1	48.1	48.1	48.1
ьE	25.321	71.9	7:	73.7	73.0	73.9	73.9	73.9	73.9	73.9	73.9	17.9	71.9	73.9	73.9	73.9	73.9
ūΕ	angal		74.6	74.6	74.7	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
u.F	is Jol		25.3	75.3	75.5	75.4	75.9	75.9	75.4	75.2	75.9	75.3	75.9	75.9	75.9	75.9	75.9
	15uni		77.6	77.6	78.3	79.3	78.3	79.3	78.6	79.6	78.0	79.5	79.6	79.6	78.5	79.6	76.6
5 F	ir Di		30.€	91.2	43.0	90.2	04.2	94.€	95.3	95.6	95.6	y' • 6	95.6	95.6	95.6	95.6	95.6
c.E	1.501	g 7 . F	91.7	92.0	74.5	95.6	15.6	75.7	95.6	75.7	96.9	34.3	96.9	96.9	96.9	96.9	96.9
1. E		e7.8	9.2.2	12.5	94.9	95.9	95.9	76.3	96.4	97.3	27.3	97.3	91.3	97.3	97.3	97.3	97.3
r		87.8	90.2	92.5	74.7	96.3	96.3	96.6	97.3	77.5	97.6	67.6	97.6	97.6	97.6	97.6	97.6
ú.E		68.8	~ 3, 4	94.2	95.5	95.3	98.0	98.3	99.3	39.3	99.3	90.7	69.3	99.3	99.3	99.3	99.3
GE		+8.8	24.	94.6	96.9	99.3	56.3	98.6	99.3	99.7	99.7	47.7	99.7	99.7	99.7	99.7	99.7
ti f	C : 2 L	33.8	94.3	94.6	Co. 9	98.3	98.3	98.6	99.3	19.7	99.7	99.7	29.7	97.7	99.7	99.7	99.7
U 5.		63.8	94.2	90.0	16.7	98.3	78.3	98.6	99.7	150.7	100.5	107.7	100.0	103.0	170.0	100.0	100.0
65		га•г ⊬я•я	04.2	94.6	96.9	98.3	98.3	79.6	99.7	151.0	100.5	100.7	103.6	100.3	100.3	100.C	100.0
4,€		6 2 3	24.2	94.6	96.9	98.3	98.3	98.6	99.7	137.0	100.5	10".)	100.0	100.0	170.0	100.0	100.0
-		нз . я	74.2	94.6	76.9	96.5	78.3	97.6 98.6	99.7	133.0	100.0		177.0	100.0	100.0	100.0	100.0
,	• • •			77.0	70.7	.0.5	.0.2	70				• 4 • .7	2 /) • 6				
δE	91	89. B	94.2	94.6	90.49	49.3	90.3	93,6	94.7	130.0	0.071	157.	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OPSERVATIONS: 295

 \bigcirc

GLOBAL CLIMATOLOGY BRANCH AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURPENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

PERIOD OF RECORD: 78-87

STATION NUMBER: 201130 STATION NAME: MURHANSK USSR

VISIBILITY IN HUNDREDS OF METERS
GC GE GE GE GF
40 32 2" MONTE: JUN HOURS(LST): 2107-2300 CELLING 6£ 43 ĢĹ 5 E 8 6E 5 GE 4 - IN | GT - FEET | 160 10 17 5 i. 6.4 4 6 O NO CETE 1 24.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2 29.2 24.2 24.2 24.2 27.3 27.3 27.3 27.3 27.3 27.3 27.3 21.3 21.3 6E 180001 27.3 6E 16001 27.3 6E 14001 27.3 27.3 27.3 27.3 27.3 27.3 21.3 27.3 27.2 27.3 27.3 21.3 27.3 27.3 27.3 27.3 27.3 21.3 21.3 21.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 as 12mon1 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 27.3 UE 13000| 39.9 GE 9700| 39.9 GE 8:50| 39.9 GE 7700| 39.9 41.7 41.0 41.0 41.0 41.3 41.0 41.0 41.0 41.0 41.7 41.0 41.0 41.0 41.0 41.0 41.5 41.6 41.3 41.0 41.0 41.0 41.0 41.0 41.3 41.0 41.3 41.0 41.0 41.0 41.0 41.3 41.0 41.0 41.0 41.0 41.C 41.3 41.0 41.5 41.0 41.0 41.3 41.0 41.3 41.5 41.0 41.3 41.0 41.0 41.3 41.0 41.0 41.0 41.0 60001 43.3 41.3 41.3 50001 42.6 45.01 41.6 40001 49.8 41.5 47.7 50.2 41.6 41.6 41.6 41.6 41.6 41.6 41.6 41.6 41.6 41.6 41.6 41.6 41.6 41.6 42.7 42.7 53.2 42 • 7 50 • 2 42.7 50.2 42.7 52.2 42.7 42.7 50.2 42.7 42.7 50.2 42.7 53.2 42.7 42.7 50.2 42.7 50.2 42.7 50.2 υE GF 35001 49.5 57.2 53. 57.9 50.9 53.9 52.2 · ງ . 9 50.9 · j.9 50.9 3000 50.9 52.2 52.2 52.2 52.2 υ£ 52.2 52.2 52.2 92.2 52.2 52.2 25001 67.9 70.3 12.7 71.0 71.0 71.7 71.0 7.1.3 71.0 71.3 71.J 71.0 71.0 71.0 71.3 71.0 71.0 υE 2003| 70.0 1000| 72.0 1000| 74.1 7 . 4 7 . 4 7 . 8 74.4 73.4 71.4 75.4 77.9 73.4 75.4 73.4 75.4 77.8 73.4 73.4 73.4 73.4 73.4 73.4 73.4 SF 75.4 77.8 74.7 75.4 77.9 75.4 77.8 75.4 77.8 75.4 77.9 75.4 75.4 75.4 75.4 77.8 77.8 76.5 77.8 91.8 12001 35.0 89.4 93.8 90.0 96.8 91.1 91.1 91.1 91.5 91.5 21.5 91.8 17511 96.7 9331 87.4 8031 87.7 7031 87.7 92.2 +1.8 93.5 93.5 93.5 93.9 93.9 94.2 94.5 +4.5 94.9 24.9 04.3 94.9 94.9 93.9 94.2 95.2 91.5 96.9 96.9 ijΕ 95.9 95.9 95.9 96.2 96.2 96.6 96.2 96.6 76.9 77.3 96.9 97.3 97.3 97.3 97.3 97.3 97.3 97.6 97.6 24.9 97.3 97.6 77.6 98.3 98.0 99.6 99.6 09.0 99.0 99.0 99.0 99.5 93.6 98.6 100.0 98.J 100.0 97.7 1.01 87.7 90.3 100.0 25.2 95.6 24 . .) 9 h . 6 98.6 99.0 99.0 99.7 100.0 100.0 100.0 100.0 99.0 99.0 99.7 99.7 99.7 a E G E 4031 87.7 3031 87.7 95.2 95.2 96.7 98.5 98.6 99.0 99.3 99.7 170.0 100.0 95.0 98.6 100.5 100.0 100.0 95.6 48.0 100.0 100.0 100.0 95. 99.6 . . 1501 67.7 1501 67.7 45.6 98.1 96.6 99. 3 99. 99.7 100.0 100.0 100.0 GE 25.0 95.6 98.3 98.6 76.6 39.7 99.0 39.3 27.7 99.7 100.0 100.0 100.0 100.0 100.0 91 67.7 94.3 95.6 96. . 98.6 48.6 99.0 27.0 99.3 99.7 99.7 100.0 100.0 100.0 100.0 100.0

GLOBAL CLIMATOLOGY BRANCH LSAFCTAC AIR HEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VIGIRILITY FROM HOURLY OBSERVATIONS

				221133		_			-				MONTH		ноичѕ	(LST):	٥١١	
	L 11.6		• • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • •		VISTUL					• • • • • • •			• • • • • • •	•••••
1			6 F	5E	1.0	GE	GE	GΞ	GE	GE	ĞE	GE	16	51.	GE	GE	GE	ь£
FL			160	43	1.0	6.1	45	40	32	24	27	1 6	12	10		5	4	0
N 0	CETL		20.5	21.2	21.2	.21 • 3	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4
			23.5	24.4	24.4	24.5	24.5	24.6	24.6	24.6	24.5	24.6	24.5	24.6	24.6	24.6	24.6	24.6
ı E	1805	101	23.5	24.4	24.4	24.5	24.5	24.6	24.6	24.6	24.6	74.6	24.6	24.6	24.5	24.6	24.6	24.6
. 5	1000	اب	23.5	74.4	24.4	24.5	24.5	24.6	24.6	24.6	24.6	24.6	24.5	24.6	24.6	24.6	24.6	24.6
			23.5	24.4	24.4	24.5	24.5	24.6	24 -6	24.6	24.6	24.6	24.6	74.6	24.6	24.6	24.6	24.6
ωE	1200	101	23.5	24.4	24.4	24.5	24.5	24.6	24.6	24.6	24.6	24.6	24.4	24.6	24.6	24.6	24.6	24.6
υE	iJno	101	35.6	77.4	37.5	37.7	38.0	30.1	39 - 1	38.2	33.2	78.2	36.2	33.2	38.2	19.2	38.2	38.2
L L	9 ~ ()	C1	35,6	77.4	37.5	31.7	39.1	36.1	39.1	34.2	38.2	38.2	30.2	38.2	38.2	38.2	38.2	38 • 2
ĢΕ	8 3	ור	35,6	77.4	37.5	37.7	38.3	38.1	39 . 1	38 . 2	38.2	38.0	2 = . 2	38 • 2	38.2	38 • 2	38.2	38.2
υE	710	01	35.4.	37.4	37.5	37 . 7	35.3	79.1	38.1	33.2	38.2	38 + 2	3 2	?a.2	38.2	39 - 2	38.2	38.2
GΕ	6.70	101	35.7	37.5	37.6	31.5	38.1	36.2	38.2	38.2	35.2	38.2	34.2	38.2	38 • 2	38.2	3 9 . 2	38.2
E	5.00	15	36.3	73.1	3 2 . 2	73.4	39.7	30.8	38.8	38.8	38.8	74.6	30.0	38.6	38.9	73.8	3 P . 8	38.8
5.5	45	1	36.7	78.5	39.6	39.8	39.1	39.2	39.2	39.3	39.3	79.3	30.3	39.3	39.3	39.3	39.3	39.3
5 C	470	oi.	42.1	44.1	44.3	44.5	44.9	45.0	45.0	45.0	45.0	45.3	45.1	45.1	45.1	45.1	45.1	45.1
ÞΕ	35.	.:1	43.6	45.7	45.8	46.0	46.3	46.5	46.5	46.6	46.6	46.6	40.6	45.6	46.6	46.6	46.6	46.6
ųΕ	100	01	45.3	47.5	47.7	47.7	49.2	48.4	48.4	48.5	48.5	48.5	40.5	48.6	48.6	43.6	48.6	46.6
ı C	25.5	al.	65.1	63.2	63.5	69.3	09.4	69.6	69.7	57.8	69.8	69.9	10.2	73.0	70.0	73.0	72.0	76.0
νE	; · J	111	67.3	73.6	70.4	71.3	71.7	71.9	72.1	72.2	72.2	72.3	7 - 4	72.4	72.4	72.4	72.4	72.4
5 €	10.,	εL.	68.2	71.6	71.9	72.4	72.8	73.0	73.1	73.2	73.3	73.3	73.4	77.4	73.4	73.4	73.4	73.4
σE	113	01	69.7	73.1	73.4	73.9	74.3	74.5	74.7	74.8	74.9	74.9	15.7	75.0	75.0	75.0	75 • C	ن 75 م
υË	176	21	87.1	45.9	a 6 • 5	87.7	89.9	99.3	87.7	93.3	97.7	91.3	91.2	91.3	91.4	71.4	91.4	91.4
J.F.	1 7	31	81.2	87.8	8 P . 4	40.8	91.0	91.6	92.0	92.6	93.1	93.4	91.5	93.1	93.8	03.9	93.9	93.9
CF	96	31	32.C	83.7	97.4	94.9	52.1	92.8	93.2	93.8	94.3	٥4.6	94.8	94.9	95.1	95.1	95.1	95.1
3.5	ောင္	1.7	82.1	99.1	87.8	91.3	97.6	93.3	97.8	94.4	94.9	95.3	45.5	95.6	95.7	95.7	95.7	95.7
υE	7 (31	82.6	90.1	91.6	93.,	94.4	95.2	95.6	96.2	96.0	97.4	97.5	97.6	97.7	97.7	97.7	97.7
. E	νņ	ان	£2.7	\$ 2.5	91.4	93.0	95.1	95.9	96.3	97.E	≯7.6	9° • C	93.3	98.3	98.5	98.5	99.5	98.5
S.E	ن ۲	n,	я ¬ . 7	3:0	91.5	93.3	95.4	c6.2	96.7	97.5	98.1	98.5	40.7	98.8	98.9	99.3	99.0	99.0
ء ر	4 ~	10	52.7	33.6	91.5	93.7	95.5	76.4	97.1	98.0	96.7	39.1	90.4	99.5	99.7	79.7	99.7	99.7
υF	7 ()	0.1	82.7	9.1.6	91.6	73.7	95.5	96.4	97.1	98.1) A =	99.3	90.6	29.7	99.3	99.8	99.8	99.8
υF		21	42.7	27.6	91.6	93.9	95.5	96.4	97.1	98.1	9 A . R	99.3	99.6	99.7	99.9	79.9	99.9	99.9
υE			82.7	93.6	71.0	67.3	95.5	96.4	97.1	98.1	78.8	99.3	92.6	22.7	99.9	100.0	100.0	100.0
٥, ٥		1	B 7 . 7	9).6	91.5	43.3	95.5	76.4	97.1	90.1	46.8	99.3	50.6	59.7	99.9	1:00.0	103.0	100.0
		-						-				.,• 3						

GLOBAL CLIMATOLOGY ERANCH LSAFETAC ATR MEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCUPPENCE OF CEILING VERSUS VISIBILITY FROM FOUGLY OBSERVATIONS

STATION NUMBER: 221133 STATION NAME: MURMANSK USSR

PERIOD OF RECORD: 78-87 MONTH: JUL HOURS (EST): 0000-0200 VISIBILITY IN HUNDREDS OF METERS CEILING GE 24 cr GΞ 1 61 GE GE G£ υ£ GŁ GŁ ĞΕ r, E GΕ GE GE GΕ FEE1 | 160 žα 1 ~ 93 μп 4 L 32 6 C NO CEIL | 26.6 25.1 28.3 26.6 20.0 28.6 28.6 28.6 28.6 28.6 29.6 29.6 28.6 28.6 28.6 28.6 GE 200001 28.6 37.6 37.6 3^.6 33.6 29.9 37.3 33.6 30.6 30.6 30.6 30.6 30.6 30.6 30.6 30.6 3°.6 3°.6 3°.6 32.3 6E 180001 29.6 29.9 30.6 30.6 30.6 37.5 30.6 30.6 30.6 30.6 30.6 30.6 30.6 36.6 6E 160001 28.6 29.5 30.3 37.6 3C.6 30.6 30.6 30.6 30.6 33.6 30.6 70.6 30.5 30.6 29.9 30.6 37.6 GE 14"00| 2F.6 37.3 36.6 30.6 30.6 33.6 30.5 30.6 20.6 30.6 33.6 30.6 120001 28.6 32.6 30.6 37.6 30.6 30.6 30.6 32.6 66 100001 39.5 42.1 42.8 42.8 43.1 43.1 43.1 43.1 43.1 42.8 90001 39.5 80001 39.5 70001 39.5 42.4 42.8 42.8 42.9 43.1 47.1 47.1 43.1 43.1 43.1 43.1 ιE 42.1 42.8 42.8 42.8 43.1 43.1 43.1 42.8 43.1 42.1 42.8 42.8 43.1 G E 43.1 42.8 42.8 42.8 u.E 60001 39. 42.1 42.4 42 . 8 42.8 42.8 42.8 43.1 43.1 43.1 43.1 43.1 43.1 43.1 50001 40.1 47.9 42.8 43.1 43.4 43.4 43.4 43.4 93.4 43.8 43.8 i₁E 43.9 43.8 43.A 43.8 43.8 4633 40.8 43.4 56.3 55.7 43.3 50.7 51.0 44.1 44.1 44.1 44.1 44.4 44.4 44.4 44.4 51.3 6.5 44.1 44.4 44.4 51.3 GE 51.0 51.0 51.0 51.0 51.0 51.3 51.3 51.3 51.3 51.3 51.3 35901 47.7 6 E 51.3 51.3 51.3 52.3 51·3 52·3 51.3 51.6 51.6 51.5 51.6 51.6 51.6 51.6 51.6 35 JG1 48.7 12.1 6.E 25601 64.5 68.1 68.4 69.8 68.8 8.86 68.8 69.1 59.1 £ 5 . 1 69.1 69.1 69.1 69.1 69.7 69.4 72.4 72.4 69.7 70.7 6 E 5 E 21001 65.1 16101 65.8 63.8 59.7 67.1 75.1 69.4 70.4 69.4 76.4 69.4 73.4 69.4 73.4 69.7 69.7 69.7 70.7 69.7 70.7 69.7 69.7 70.7 70.7 70.7 L.F 15001 66.8 71.7 12 ... 72.4 72.4 72.4 72.4 12.7 72.7 72.7 72.7 72.7 12.7 72.7 85.9 12001 77.6 85.9 86.B G € 05.5 86.2 86.5 R6 . F 86.8 06.A 86.8 25.2 86.2 36.8 86.8 07.2 :9.5 69.5 1.301 60.6 37.5 89.1 89.5 P7.5 88.2 8.38 89.8 900| 81.6 900| 82.7 700| 83.6 89.5 97.6 91.8 99.1 9,.; 91.1 91.1 91.4 91.8 91.8 91.9 91.A 91.8 91.8 91.8 27.1 u £ 91.4 91.4 96.4 92.4 92.8 93.1 93.1 97.1 93.1 93.1 93.1 93.1 91.0 94.1 95.1 95.4 96.1 94.1 96 • 1 96.1 96.1 91.5 94.7 97.C ([1:01 03.0 72.1 12.9 95.4 95.7 97.3 91.3 97.0 97.0 97.0 97.0 97.0 5551 84.0 4051 84.2 22.4 93.1 93.4 95.1 94.1 36.4 97.4 98.0 98.7 98.7 34.7 98.7 98.7 98.7 98.7 98.7 95.7 G.E. 32.6 94.4 97.0 99.3 90.3 59.3 99.3 99.3 99.3 99.3 98.0 98.7 19.3 92.8 92.8 137.0 137.0 137.3 7001 84.2 93.4 94.4 95.7 97.0 99.3 99.7 99.7 99.7 100.0 100.0 100.0 100.0 100.0 55.7 υF 100.0 100.0 2001 84.2 93.4 74.4 97.6 98.0 24.7 99.7 99.7 100.0 100.0 100.0 100.0 1.001 84.7 ۶2• ٤ 93.4 100.0 93.7 100.0 100.0 100.0 6 E 11 84.2 73.4 94.4 95.7 99.7 97.6 98.3 98.7 99.7 101.7 101.0 100.7 170.0

ULDEAL CLIMATOLOGY BRANCH USAFLIAC AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURPENCE OF CEILING VERSUS VISIBILITY FROM FOURLY OBSERVATIONS

PERIOD OF RECORD: 78-87 STATICH NUMBER: 221130 STATION NAME: MURMANSK USSR

												MONTH	: JUL	HOURS	(LST): (300-05	0.0
		• • • • •	• • • • • • •		• • • • • •	• • • • • • •				• • • • • • •			• • • • • •	• • • • • •		• • • • • •	
	LIMG			_						+UNDRFDS							
		51	SL	G E	GE	GE	65	GE	G.F.	GΕ	GE	SE	G.L.	GE	GE	GE	GF
Fξ			9.0	ن د	6.3	4.8	40	32	2.4	2.3	16	1.7	18	Ą	5	4	ε
	• • • • • •	• • • • • •	• • • • • •	• • • • • • •	• • • • • •	• • • • • •		• • • • • • •	• • • • • • •	• • • • • • •		• • • • • •	• • • • • • •	• • • • • • •			
# 0	CEIL I	22.0	24+6	24.9	25.2	25.0	2ۥ2	26.2	26.2	۵.5 د 5	26.9	21.9	27.2	27.2	21.2	27.2	27.2
6 E	250001	23.3	26.5	26.9	27.2	27.5	26.2	29.2	29.2	28.5	28.8	27.4	29.1	29.1	29.1	29.1	29.1
úΕ	180901	27.3	76.5	26.9	27.2	27.5	28.2	29.2	28.2	28.5	28.8	25.0	29.1	29.1	29.1	29.1	29.1
しこ	160001	23.3	23.5	26.9	27.2	27.5	26.2	28.2	23.2	28.5	23.6	, c • b	27.1	29.1	29.1	29.1	29.1
ú.⊊	147001	27.3	26.5	26.9	27.2	21.3	28.2	28.2	28 . 2	23.5	28.8	20.4	27.1	29.1	29.1	29.1	29.1
űΕ	15,901	23.3	26.5	26.9	21.2	27.5	20.2	28.2	20.2	23.5	28.8	_ A . A	24.1	29.1	29.1	29.1	29.1
ű S	100001	30.4	35.3	35.6	35.2	36.6	37.2	37.5	37.5	37.9	38.2	30.3	35.5	38.5	78.5	38.5	38.5
GΕ	97001	33.4	33.3	35.6	36 . 2	36 . 6	37.2	37.5	31.5	37.9	38.2	30.7	78.5	38.5	39.5	38.5	38.5
6 E	87371	33.4	35.3	35.6	36 . 2	36.5	37.2	37.5	37.5	37.9	38.2	3P . 2	36.5	38.5	38.5	39.5	38.5
5 €	7^ 00 l	33.4	35.3	35.6	36 . 2	36.6	37.2	37.5	37.5	37.9	38 . 2	39.3	38.5	38.5	30.5	38.5	38.5
6 E	0.1654	37.4	75.3	35.6	36 • 2	35.6	37.2	37.5	37.5	37.9	38.2	3 ° • ?	78.5	38.5	78.5	38.5	38.5
i. €	50501	32.n	36.9	37.2	37.9	38 • 2	38.8	39.2	39.2	39.5	79.5	37.0	4 u • 1	43.1	40.1	40.1	43.1
GE	45331	32.7	₹7.5	37.9	38 - 5	39.8	39.5	39.8	39.8	43.1	40.5	4 0	43.8	47.8	40.8	40.8	4 G • A
GΕ	4 130	41.1	40.6	46.9	47.6	47.9	48.9	49.2	49.2	49.5	49.8	цо,я	50.2	50.2	50.2	50.2	50.2
υE	35 301	41.4	45.9	47.2	47.9	48.2	49.2	49.5	49.5	49.3	50.2	50.0	50.5	50.5	r J.5	53.5	56.5
ĿΕ	37991	41.7	47.2	47.6	48.2	48.5	49.5	49.9	49.8	50.2	50.5	57.5	10.0	5D • 3	50.8	50.€	50.8
65	25051	5 7. 4	61.2	51.5	62.1	62.8	63.8	64.1	64.1	64.4	64.7	64.7	65.0	65.3	45.0	65.0	65.J
GF	21,001		53.4	63.8	64.4	65.0	66.0	66.3	66.3	66.7	67.G	61.0	67.3	67.3	67.3	67.3	67.3
6 E	18061		63.8	64.1	64.7	65.4	66.3	66.7	66.7	67.0	67.3	67.5	67.6	67.5	67.6	67.6	67.6
G.C	15001		65.7	66.7	67.0	67.6	68.6	68.9	68.9	69.3	69.6	U= .5	69.9	67.9	69.9	69.9	69.9
6 F	12001	66.3	76.7	77.7	78 . 6	79.3	B 🗸 . 3	87.9	30.9	81.2	F1.6	51.6	81.9	81.9	81.9	81.9	81.9
6 E	1 301	£8.9	79.6	80.b	61.9	62.5	84.1	84.8	55.1	85.4	°5.8	as.•*	P6 • 1	96.1	P6.1	86.1	я6.1
6.5		70.2	P1.5	83.2	F4 . 5	85.1	e7.1	87.7	38.0	89.3	PB • 7	H 0 7	F7.2	44.7	69.3	89.0	69.0
0.E		71.2	و ه	84.1	85 • 5	86.4	80.3	89.C	89.3	87.5	9:J • C	9	90.3	93.3	90.3	90.3	96.3
ÜĘ		71.E	44.5	06.4	66.3	89.3	91.3	91.9	92.6	92.9	93.2	ς,,	21.5	93.5	93.5	93.5	93.5
6.5		71.0	64.5	86.4	88 . 3	69.3	11.6	92.2	92.9	93.2	93.5	9 1 5	93.9	93.9	93.9	93.9	93.9
_				_													
U.E		72 • 2	85.4	87.4	80.6	57.6	2.9	93.5	94.2	94.5	35.5	91.5	95.5	95.9	95.8	95.8	95.8
5 E		72.5	÷5.8	87.7	90.3	91.6	4.2	95.5	76.4	47.1	98 • 1	98.1	38.4	99.4	95.4	98.4	98.4
C.E.		72.5	25.8	87.7	95.3	91.6	44.2	95.5	96.4	97.1	28.4	G n . 4	98.7	98.7	78.7	99.7	98.7
6.6		72.5	5.6	37.7	95.3	91.6	9 ++ 2	95.5	96.4	97.4	98.7	95.7	99.0	99.0	99.4	99.4	99.4
t. E	1.1	77.5	:5•₺	87.7	96.3	91.6	91+2	95.5	96.4	97.4	98.7	92.7	99.0	99.0	99.4	99.4	100.0
ιr		72.5	3.0	87.7	90.3	91.6	91.2	95.5	96.4	97.4	98.7	90.7	99.0	99.3	99.4	99.4	100.0
	• • • • • •	• • • • •	• • • • • •	· · · · · · ·	• • • • • •			• • • • • • •									

CLOBAL CLIMATOLOGY URANCH USAFETAC AIR WEATHER SERVICE/MAC

FERCENTAGE FREQUENCY OF OCCURRENCE OF CEICING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

PECIOD OF RECORD: 78-87
MONTH: JUL HOURS(LST): G600-08CO STATION NUMBER: 221130 STATION HAME: MUHHANSK USSR

								• • • • • • • •			• • • • • • •	• • • • • • •		• • • • • •	
LF1L1'.6					1	VISIBIL	ITY IN I	HUNDREDS	OF Mr	Lt H.					
IN 6.1	99	GE	GΕ	GE	GE.	G£	G€	GE	GE	S-E.	Sŧ	GE	GE	GE	GE
FFET 100	9	₽ŋ	6 i	4 8	40	32	24	2.3	16	1.7	10	8	5	4	J
	_														
							• • • • • • •								
10 6174 1 31 11	2.0		22			25 7	26.0	26.0	26 . !	26.3	26.3	26.3	24 2	24.7	24 .
NO CETE 21.4	24.5	24.0	25.0	25.3	25.7	25.7	20.0	26.0	∠ 0 • 1	5 • 3	∠ 5 • 3	20.3	26.3	26.3	26.6
GE 201091 22.4	25.0	25.3	26 . 5	26.6	27.0	27.0	27.3	27.3	27.€	27.6	27.6	27.6	27.6	27.6	28.0
6E 186301 22.4	25.5	25.3	26.3	26.6	27.0	27.0	27.3	27.3	27.6	27.6	:7.6	27.6	27.6	27.6	26.0
JE 101351 22.4	25.0	25.3	26.3	26.6	27.C	27.0	27.3	27.3	27.6	27.6	27.6	27.6	21.6	27.6	28.3
CE 147001 22.4	25.3	25.3	26.3	26.6	27.0	27.0	27.3	27.3	27.6	. 6	27.6	27.6	27.6	27.6	26.0
65 12:601 22:4	:5.0	25.3	-				27.3			27.6	37.6	27.6	27.6	27.6	26.0
05 1c, 6,1 2c.4	. 3.	23.5	26.3	26.6	27.0	27.0	21.3	27.3	27.6	F . * D	21.0	21.0	21.0	27.0	20.0
GE 18760) 31.6	35.2	35.2	37.2	37.5	36.2	3 R . 2	38.5	39.8	79.1	30.1	33.1	39 • 1	39.1	39.1	39.5
GE 91001 31.6	?5. L	36.2	37.2	37.5	38.2	38 • 2	38.5	39.8	39.1	3 = • 1	79.1	39.1	39.1	39.1	39.5
65 67631 31.6	75.2	36	37.2	37.5	30.2	39.2	33.5	38 . 8	39.1	37.1	39.1	39.1	39.1	39.1	39.5
6E 7 UCL 31.6	75.2	36.2	37.2	37.5	38.2	38.2	38.5	38.8	79.1	35.1	39.1	39.1	39.1	39.1	39.5
6F 6 001 31.6	35.2	36.2	37.2	37.5	38.2	39.2	38.5	38.8	39.1	39.1	39.1	39.1	79.1	39.1	39.5
0: 0 001 31.6	,,,,,	30.2	31.2	3.43	30.6	37.66	3943	36.9	3741	5 1	27.4	3 4 4 1	7.1	37.1	37.3
			••		. .		10.0		70 -			10 f	• •		39.8
6E 50001 31.9	35.5	36.5	37.5	37.8	76.5	39.5	39.8	39.1	39.5	30.5	14.5	39.5	79.5	30.5	
GE 45.31 31.9	55.5	36 • 5	37.5	37.5	38.5	39.5	38.8	39.1	19.5	50.5	19.5	39.5	39.5	39.5	39.8
tiE 4_u01 38.8	43.1	44.1	45.1	45.4	46.1	46.1	46.4	46.7	47.0	47.7	47.0	47.0	47.0	47.0	47.4
r. F. 35001 39.5	43.8	44.7	45 . 7	46.1	46.7	46.7	47.3	47.4	47.7	47.7	47.7	47.7	47.7	47.7	48.0
GE 30001 37.5	43.8	44.7	45.7	46.1	46.7	46.7	47. J	47.4	47.7	67.7	47.7	47.7	47.7	47.7	48.6
at 30001 1.4.	- 7.0	7	1,2 • 1	40.4	-0.	40.	47.0	7		•	-1	7,.,		4.6.	4010
66 25 21 49.7	r 5 . 4	56.9					59.5	59.9	60.2	67.2	67.2	60.2	60.2		60.5
			57.3	58.2	59.2	59.2								63.2	
6E 27021 51.6	50.2	59.2	60.5	€D.9	61.8	61.8	62.2	62.5	42.P	60 • A	62.8	62.8	62.8	62.8	63.2
uE 1~001 52±3	5 : • 9	50.9	61.2	61.5	62.5	62.5	62.8	63.2	63.5	62.5	63.5	63.5	63.5	63.5	63.8
15 15001 53.6	13.5	61.5	06.6	63.2	64.1	64.1	64.5	64.9	65.1	6.1	65.1	65.1	65.1	65.1	65.5
C 17gnl 68.5	74.3	15.0	7t . 6	77.3	78.6	78.6	78.9	79.3	79.6	70.6	79.6	79.6	79.6	79.6	79.9
			, , ,			, , , , ,									
JS 1-JOH 67.1	77.6	18.0	80.3	89.9	32.6	82.6	82.9	03.2	P3.6	87.6	93.6	83.6	93.6	83.6	83.9
6E 3 101 64.8	77.9	81.3	82.7	83.0	95.2	65.2	A5.5	85.9	96.2	8/ 17	46.7	96.2	P5.2	86.2	66.5
of rb∩ 70•1	44.9	81.6	85 • 2	85. <i>i</i>	87.5	67.5	87.A	a8.5	3.68	6, c . c	80.6	89.8	P8.9	8 + 8 6	89.1
UF 7651 71.7	45.9	85.9	67.5	89.1	90.8	97.8	91.4	92.1	25.4	97.0	92.4	92.4	92.4	92.4	92.8
6E 6031 72.0	94.5	96.5	80	39.8	91.4	91.4	92.1	92.0	93.1	y ₹ • 1	93.1	93.1	93.1	93.1	93.4
		,												- •	
65 501 73.4	15.2	37.2	99.3	97.5	92.1	92.1	92.8	93.4	94.1	94.1	94.1	94.1	94.1	94.1	94.4
05 4031 72.7	_				93.4		24.7			91.4	76.4	96.4	90.4	76.4	96.7
	75.5	87.6	89.3	91.		93.5		95.7	96.4						
6F 1231 72•7	95.5	98.2	93.5	92.4	04.1	94.4	95.7	77.4	98.4	90.4	78.4	98.4	98.4	98.4	98.7
LF 2001 72.7	25.5	5 A • 2	90.5	97.4	94.1	94.4	95.7	97.4	79.4	4.90	98.4	99.4	98.4	98.4	98.7
GE 130 77.7	95.5	ня.∑	90.5	92.4	94.1	94.4	95.7	97.4	09.4	90.4	98.4	98.4	08.4	98.4	99.3
UE 1 72.7	45.5	98.2	90.5	92.4	94.1	94.4	95.7	97.4	78.4	90.4	48.4	98.4	98.4	98.4	100.0
	• • • • • •	• • • • • • •				• • • • • • •		• • • • • • •		· · · <i>· · · ·</i>	• • • • • • •	• • • • • • •		• • • • • •	

FUE : SPOTAL NUMBER OF DESERVATIONS: 334

ATR MEATHER SERVICEZMAC

CLUBAL CLIMATOLOGY BRANCH PERCENTAGE FREQUENCY OF DECURRENCE OF CFILING VENSUS VISIBILITY USAFETAC FROM HOURLY OBSERVATIONS

STATION HEMPER: 221120 STATION NAME: MERMANSK USSR

PERIOD OF PECOFO: 75-67 MUNITE: ALL HOLDSILSTI: 0407-1100 EILING VISIBILITY IN HUNDPEDS OF METERY IN 1 GT OF SE OF SE CE GE GE GE C GE GE GE GE GE GE 32 24 23 11 ડેદ ક 4.5 ¥.J 34.5 25.5 25.5 25.5 25.4 31.4 ... 25.0 25.9 25.8 25.0 NO CETE 1 22.2 24.4 25.2 25.5 25. . 27.8 27.8 27.5 27.5 20.5 24.4 GE 201001 25.2 21.5 28.5 29.5 23.4 .`-.¥ .`4.3 28.8 26.8 24.1 26.5 .3.5 20.5 23.4 28.6 60 180001 25.2 60 160001 25.2 24.5 24.5 24.5 24.5 28.8 25.5 26.5 28.5 28.5 25.8 26.8 20.8 20.6 28.6 23.1 20.5 77.5 3.8 34.5 48.5 23.5 20.4 28.8 28.1 78 . E GE 14139| 25.2 GE 12131| 25.2 28.5 28.5 28.5 28.5 28.5 24.5 28.5 28.8 28.8 28.1 GE 100001 35.9 34.4 47.1 41.1 41.1 41.4 41.4 41.4 43.7 41.1 41.1 41.1 41.4 95uC1 35.8 81301 35.8 71201 35.8 39.4 47.1 41.1 41.1 41.4 41.4 41.4 41.4 43.7 41.1 41.1 41.1 41.4 41.4 41.4 47.1 40.7 43.7 41.1 41.4 G.€ 41.1 41.1 41. i 41.4 41.4 41.4 41.4 41.4 41.1 42.1 41.1 1. E 6"6"1 35.8 7.4 4 7 - 1 43.7 41.1 41.1 41.1 41.1 41.4 41.4 41.4 41.4 41.4 41.4 5000 | 36.1 49.00 | 36.1 4.00 | 38.4 30.0 | 39.4 41.7 41.7 47.4 41.7 41.7 41.7 41.7 19.7 41.1 41.4 41.4 41.4 41.4 41.4 41.7 υE 93.9 42.7 42.7 41.7 41.4 41.4 41.4 41.7 41.7 41.7 41.7 41.7 39.7 41.4 41.7 J٤ 41.1 43.4 41.4 42.1 4 2 . 7 43.7 43.7 43.7 43.7 44.0 44.7 44.3 44.7 44.0 44.0 43.7 44.3 44.0 44.0 42.1 43.4 43.7 43.7 44.[GΕ 43.7 44.7 25 361 51.2 21 301 54.0 16201 54.3 57.6 57.3 57.9 57.9 57.9 58.3 50.3 58.3 59.3 c.9.3 58.3 58.3 ωE : 5.E 56.3 57.4 ან ნ[55.9 59.3 57.0 59.9 f1.6 61.5 61.6 61.6 60.3 63.7 61.3 61.3 61.3 61.3 61.5 61.6 61.6 61.6 61.0 61.0 61.9 61.9 65.8 65.8 61.3 6:.6 61.5 61.6 61.6 65.2 54.1 1:001 57.9 53.9 89.1 12001 72.5 1.1 87.9 82.5 63.1 83.4 83.8 94.1 64.1 84.1 09.4 1411 75.8 -4.4 88.7 89.7 99.1 89.1 49.4 39.4 υĒ 35.4 97.1 67.7 9021 76.5 9011 76.8 7001 73.5 91.1 70.1 87.4 97.1 80 . 7 87.4 96.4 70.4 90.7 96.7 91.1 51.1 71.1 91.1 91.1 91.1 G.F. 58.4 21.7 9,.1 91.7 91.7 95.0 92.1 95.4 92 • 1 95 • 4 92.4 97.4 91.7 92.4 92.4 92.4 92.4 95.7 92.4 97.4 , , F 92.1 93.7 94.4 95.4 36.4 46.4 96.4 96.4 96.4 6001 78.5 6001 78.5 1001 78.5 1001 78.5 1011 78.5 97.7 3 2. 7 94.4 95.4 96.4 96.4 95.7 16.7 57.4 97.4 97.4 97.4 27.4 97.4 97.4 92.7 98.3 98.3 98.3 99.7 99.2 99.5 95.3 σE 25.7 95.4 75.4 96.4 57.7 98.3 98.7 29.2 99.3 99.3 09.3 99.3 99.3 7 1. 7 98.5 99.7 99.7 99.7 99.7 99.7 99.7 23.0 100.0 100.0 4 1. 7 95.4 96.7 36.6 98.7 79.7 99.7 100.0 100.0 99.7 133.3 103.3 108.0 108.0 1 79.5 90.3 98.7 99.0 27.7 97.7

TOTAL JUMBER OF OISERVATIONS:

732

GLOBAL CLIMATOLOGY PRANCHUSAFETAC

PERCENTAGE FREQUENCY OF OCCURPENCE OF CRILING VERSUS VISIBILITY FROM HOUPLY OBSERVATIONS

AIR WEATHER SERVICE/MAG

STATION NUMBER: 201130 STATION NAME: MURMANSK USSR PLCIOD OF PECORD: 78-87 MONTH: JUL HOURS(LST): 1200-1400 VISIBILITY IN HUNDREDS OF METERS

GE GE GE GE GE CEILING GΞ 5.0 4.0 6E 63 IN | GT FEET | 10" 9E 9.5 ΒE Gε 48 40 32 2.4 2.2 16 10 3 0 25.7 NO CEIL | 25.0 25.7 25.7 25.7 25.3 25.7 25.7 25.7 25.7 25.7 25.7 25.7 25.3 25.7 25.7 27.7 27.7 27.7 27.7 27.7 66 200021 27.0 66 140801 27.0 27.3 27.3 27.7 27.7 27.7 27.7 27.7 27.7 27.7 27.7 27.7 27.7 21.1 27.7 27.3 27.7 27.3 27.1 27.7 27.7 27.7 27.7 27.7 27.7 27.7 27.7 27.7 27.1 6E 167001 27.0 6E 147001 27.0 6E 127001 27.0 27.3 27 • 7 27 • 7 27.7 27.3 27.7 27.7 27.7 27.7 27.7 27.7 27.7 21.7 27.7 47.7 27.7 27.7 21.1 27.7 27.7 27.7 21.7 27.7 40.3 40.3 40.3 GE 198991 39.7 39.7 39.7 40.j 43.0 40.0 40.0 40.0 40.3 40.3 43.3 40.3 43.3 40.3 46.3 9740| 39.0 8730| 39.0 7701| 39.7 40.3 40.3 40.3 G.F 39.7 19.7 39.7 40.0 47.0 40.0 49.9 49.0 40.0 40.3 40.3 40.3 47.3 40.3 40.3 43.3 4 G • 3 40.0 4C. D 40.3 19.7 3 2 . 7 40.0 40 .C 40.3 40.7 47.3 40.3 40.j 68 613CT 37.0 40.3 45.3 37.7 45.0 40.0 40.0 40.0 40.3 40.3 40.3 40.3 40.3 40.3 uЕ 50001 39.3 40.0 40.0 4.3 - 5 47.5 40.3 40.5 40.7 40.7 4.1.7 40.7 40.7 40.7 40.7 6 E 45001 40.0 47.7 41.0 41.3 41.3 41.3 41.3 43.7 41.3 41.0 41.0 41.0 41.3 41.3 41.3 41.3 48.3 49.3 49.1 48.0 49.0 48.C 49.3 46.3 48.3 48.3 48.7 48.7 48.7 43.0 48.3 48.3 49.7 is E 48.3 30001 48.0 49.0 49.0 47.3 49.3 49.3 49.1 49.7 40.7 49.7 49.7 49.7 49.7 5^.7 58.0 69.0 1.4" 25001 66.7 64.0 68.3 68.3 66.3 63.3 68.3 69.0 69.L 69.0 69.0 69.0 69.0 -2.0 2132| 69.7 1939| 71.0 15.0| 72.7 1000| 85.7 72.3 77.3 75.3 71.0 71.3 72.3 71.3 72.7 71.3 71.3 72.7 72.3 73.3 72.3 73.3 72.0 73.3 72.3 73.3 72.0 73.3 72.0 73.3 G.F. 71.3 71.3 C.F. 74.7 75.3 75.3 74.3 74.3 74 . 7 74.7 74.7 74.7 75.3 75.3 75.3 75.3 75.3 10001 67.0 42.3 93.0 93.7 94.0 94.3 94.7 94.7 95.3 95.3 un , 3 55.3 95.3 95.3 95.3 95.3 5 E 9441 87.7 9401 88.3 93.1 93.7 95.J 95.7 95.3 95.7 95.7 96.7 91.7 96.7 96.7 97.3 96.7 95.7 96.7 96 .J 96.0 94.3 36.3 96 • 7 98 • 0 96.7 98.6 υ£ 7631 88.7 78.7 98.7 93. υF 1331 89.3 23.3 35.0 97.1 98.3 98.7 98.7 99.3 90.3 99.7 94. 3 99.3 99.3 9471 89.3 4331 89.3 3 F. 3 F. 45.3 c9.3 96.3 97.7 99.0 98.3 99.7 98.7 99.3 99.1 92.3 99.3 99.3 99.3 99.3 96.1 95.7 99.7 100.0 100.3 100.3 99.7 59.7 29.3 98.3 98.7 99.7 99.0 99.7 99.7 09.7 99.7 27.0 3001 89.3 98.3 98 . : 90.7 99.3 99.0 1J0.0 1J0.0 170.5 100.0 100.7 100.0 100.0 : E 35.3 96.0 99.5 99.3 78.7 99.0 99.0 150.0 100.0 100.0 100.0 1431 83.3 130.0 1 67.3 99.0 99.0 130.0 100.0 150.0 103.3 100.0 100.0 100.0

COTAL NUMBER OF OPSERVATIONS:

ULUBAL CLIMATOLOGY ERANCH USAFETAC AIR WEATFER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VICIPILITY FROM HOURLY OBSERVATIONS

(,

STATION NUMBER: 221133	STATION NAME:	MURMANSK USSR	FE 100 OF	PECORD: 78-87
			MONTH: JE	IL HOURS(LST)

		• • • • • •	• • • • • •	• • • • • • •	• • • • • •	• • • • • • •								• • • • • • •	• • • • • • •	• • • • • • •	• • • • • •
LT 100 92 72 50 48 40 32 24 20 16 12 10 8 5 4 CELL 25,4	LL I 1. U		c r	C.	~ =	c s							2.1	C C			cr
CLIL 25.4 27.1 27																	66
CLIL 25.4 25.4 25.4 25.4 25.4 25.4 25.4 25.4 25.4 25.4 25.4 25.4 25.4 25.4 25.4 25.4 26					-	-								_	_		_
2 2 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 2																	
			3 • •	23.4	23.4	2744	23.4	23.4	23.4	23.4	73.4		23.4	.,,,		27.4	23.7
100 201 27.1 27.1 27.1 27.1 27.1 27.1 27.1 27.			27.1		27.1	27.1	27.1		27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1
14701 27.1 27.1 27.1 27.1 27.1 27.1 27.1 27.			27.1	27.1	27 - 1	27.1		27.1	27.1	27.1	27.1		27.1		27.1	27.1	27.
127021 27.1 27.1 27.1 27.1 27.1 27.1 27.1 27	160001	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27 • 1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	21.
17031 28.7	147001	27.1	?7.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27,1	27.1	27.1	27.
97071 38.0 79.0 38.7 58.7 58.7 58.0 39.0 59.0 38.0 38.0 38.0 58.7 78.0 78.0 78.0 78.0 38.0 38.0 38.0 39.0 38.0 39.0 38.0 39.0 38.0 39.0 79.0 79.0 79.0 79.0 38.0 38.0 38.0 39.0 39.0 39.0 39.0 39.0 39.0 39.0 39	100001	27.1	27.1	27.1	27 • 1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.
97071 38.0 79.0 38.7 58.7 58.7 58.0 39.0 59.0 38.0 38.0 38.0 58.7 78.0 78.0 78.0 78.0 38.0 38.0 38.0 39.0 38.0 39.0 38.0 39.0 38.0 39.0 79.0 79.0 79.0 79.0 38.0 38.0 38.0 39.0 39.0 39.0 39.0 39.0 39.0 39.0 39	innaal	1 35.0	24.0	39.0	79.5	33.3	78.0	39.0	38.D	38.0	38.0	34.7	19.G	38.3	7â.O	38.0	38.1
#700 34.0																	
50.07 33.9 34.9																	
52001 33.9 72.9 38.9 38.9 38.9 38.9 38.9 38.9 38.9 78.9 78.9 38.7 38.9 38.9 78.9 78.9 78.9 78.9 78.9 78.9 78.9 7																	
4500 39.3 79.3 39.1 39.3 39.3 39.3 39.3 39.3 39.3 3	0 031	274	19.0	30.47	30.0	37.6	30.0	37.03	30.0	30	30 . 5		7.5	20.0	22.0	35.0	30.
4502 45.2 45.2 45.2 45.2 45.2 45.2 45.2 45.	50001	33.9	12.9	39.9	38 . 9	39.9	36.9	38.9	38.9	38.9	79.9	30.7	39.9	38.9	79.9	39.9	38.
4502 45.2 45.2 45.2 45.2 45.2 45.2 45.2 45.	45001	39.3	79.3	39.1	39.3	39.3	39.3	39.3	39.3	39.3	39.3	30.3	39.1	39.3	79.3	39.3	39.
\$5.01 45.5 45.5 45.5 45.5 45.5 45.5 45.5 45.	4-031	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.7	45.2	45.2	45.2	45.5	45.
3 J.C. 46.7 46.9 46.9 46.9 46.9 46.9 46.9 46.9 46.9	3521	45.5	45.5	45.5		45.5	45.5	45.5			45.5	41.5	45.5				45.
2001 73.6 73.9 73.9 73.9 73.9 73.9 73.9 73.9 73.9																	47.
2001 73.6 73.9 73.9 73.9 73.9 73.9 73.9 73.9 73.9	20.521	71.7	71.3	71.8	71 - 3	71. 1	71. 3	71 - 3	71 2	71 7	71 7	71 7	71 7	71 7	71 3	71.6	71
1832 74.3 74.9 74.9 74.9 74.9 74.9 74.9 74.9 74.9																	
1001 80.1 93.4 94.1 04.4 94.4 94.7 94.7 94.7 94.7 94.7 94.7 9																	
17031 88.4 71.7 33.4 92.4 92.4 92.4 92.7 92.7 92.7 92.7 92.7 92.7 92.7 92.7			-														
13331 89.1 93.4 94.1 04.4 94.4 94.7 94.7 94.7 94.7 04.7 94.7 94.7 94.7 94.7 94.7 95.0 95.0 95.0 95.0 95.0 95.0 95.0 95.0																	
0.3] 97.8 95.0 96.0 96.4 96.4 96.7 97.0 98.0	1.001	88.4	.1.7	93.4	92.4	A 5, 4 4	76.1	92.1	92.7	92.7	92.7	97.7	72.7	92.7	92.7	93.1	93.
931 911 93.7 96.7 97.4 97.4 97.7 98.3 98.3 98.3 98.6 98.6 98.7 98.7 98.3 98.3 98.6 98.7 98.7 98.7 98.8 98.7 98.8 98.7 98.1 93.7 98.7 98.8 98.8 98.8 98.8 98.8 98.8 98			93.4	94.1	04.4	94.4	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	95.0	95.
700 91.1 75.7 96.7 97.4 97.4 97.7 98.3 98.3 98.3 98.6 98.6 98.6 98.6 98.6 98.6 98.3 98.3 98.3 98.4 6001 91.1 76.4 97.4 98.7 98.7 99.8 99.7 99.7 99.7 99.7 99.7				96.0	90.4	96.4	9t • 7	97.5		91.7	97.0	97.3	97.0	97.0	97.3	97.4	97.
600 01.1 26.4 97.4 98.7 98.7 99.0 99.3 99.3 99.3 99.3 99.3 99.3 99.3 99.7 99.				76.7	97.4	97.4	97.7	98.3	98.J.	98.0	98.0	36.3	98.3	98.3	98.0	98.3	98.
***C31 91.1 ***6.4 97.4 99.3 99.7 </td <td>7501</td> <td>91.1</td> <td>75.7</td> <td>36.7</td> <td>97.4</td> <td>97.4</td> <td>37.7</td> <td>98.3</td> <td>98.7</td> <td>98.0</td> <td>3 A & C</td> <td>90.0</td> <td>73.C</td> <td>98.2</td> <td>99.3</td> <td>98.3</td> <td>90.</td>	7501	91.1	75.7	36.7	97.4	97.4	37.7	98.3	98.7	98.0	3 A & C	90.0	73.C	98.2	99.3	98.3	90.
4.01 91.1 93.4 97.4 99.3 99.2 99.3 90.7 99.7 99.7 99.7 97.7 97.7 99.7 99.7	900 1	21.1	35.4	97.4	98.7	90.7	99.0	99.3	99.3	99.3	99.5	50.3	23	99.3	99.3	99.7	99.
4.01 91.1 93.4 97.4 99.3 99.2 99.3 90.7 99.7 99.7 99.7 97.7 97.7 99.7 99.7	5001	91.1	95.4	37.4	79.1	99.1	99.3	99.7	99.7	99.7	99.7	99.7	99.7	49.7	99.7	10.0.0	100-0
7:01 91.1 96.4 97.4 99.0 99.0 99.3 99.7 99.7 99.7 99.7 99.7 99.7 99.7			-		-												
0001 51.1 96.4 97.4 99.0 99.0 99.3 99.7 99.7 99.7 99.7 99.7 99.7 99.7																	
107 51.1 26.4 27.4 99.3 97.7 79.3 99.7 99.7 99.7 99.7 99.7					_												
1 91.1 20.4 37.4 20.5 30.5 30.5 30.7 00.7 00.7 00.7 00.7 00.7 00.7 00.7	إنىد	71.1	15.4	11.4	44 • 7	91.	, 4. 3	44.1	44.1	99.7	39.7	9	79.7	44.1	37.1	160.0	100.
	11	91.1	25.4	₹7.4	99.5	ყი.ე	39.3	99.7	99.7	97.7	29.7	94.7	29.7	99.7	99.7	100.0	100.0

SEDERE CLIMATCLOGY DERMICH USAFETAS AIR WEATHER SERVICESMAS

PERCENTAGE FREQUENCY OF OCCURRENCE OF CELLING VERSUS VISIBILITY FROM HOURLY OBSCRYATIONS

5 1,	MUITON 1.	1ጣዙኮርዩ:	271133	ZIVII	ON NAME	: микн	LNSK US	\$ 8				PERTOO MANTH	OF PEC		-87 (LST):	1900-20	166
 C.E.:			• • • • • •	• • • • • • •	• • • • • •	• • • • • • •											•••••
	L 1110 [4] 1	st	űŧ.	ot.	ωF	G.E.	G.F.	GE.		HUNDRED!							
		lor	9.	6.5	6.3	4 14	¥.0	3.2	6€ 24	6 E 2 D	GE 16	C.E.	64. 13	G E	G E	CE.	υE
					• • • • • •			••••	•••••	• • • • • • • •				• • • • • • •			
ii n	CEIL I	31.5	31.5	31.5	31.5	3 🕻 🔹 5	31.5	31.5	31.5	31.5	s1.5	51.5	11.5	31.5	31.5	31.5	31.5
UΕ	almaal	34.1	29.1	34.:	34 • 1	34.1	34.1	34 • 1	34.1	54.1	34.1	74.1	74.1	34.1	74.1	34.1	*4.1
L.F	16: 331	34.1	34 • 1	34.1	34 . 1	34.1	14.1	34 • 1	34.1	34.1	34 - 1	54.1	34.1	34.1	74 . 1	34.1	34.1
1.1	160001	34. 1	74.1	34.1	34 + 1	34 - 1	24.1	34.1	34.1	34.1	74.1	14.1	4.1	34.1	74.1	34.1	34.1
LE	191011	34.1	74.1	34	34 . 1	34.1	34.1	34.1	34 - 1	54.1	74.1	59.1	54 . 1	34 - 1	74.1	34.1	24.1
65	127631	34.1	24.1	34.1	34 . 1	34.1	24.1	34 + 1	34.1	34.1	34 . ;	₹4.1	74.1	34 . 1	34.1	34.1	34.1
															•		
U F	1 ,		42.4	42.4	4 ? • 4	42.4	42.4	42.4	42.4	42.4	42.4	4 4	42.4	42.4	42.4	47.4	42.4
UE		42.1	42.4	4.7.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	47.4	42.4	42.4	42.4	43.4	42.4
G.C		42.1	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	4 - 4	42.4	42.4	42.4	42.4	42.4
G E	7.301	92.1	42.4	4.7.4	42.4	42.4	42.4	42.4	47.4	42.4	42.4	4	47.4	42.4	42.4	42.4	42.4
(, F	633	42.1	42.4	4.7.4	42.4	42.4	42.4	47.4	42.4	42.4	42.4	4 4	42.4	42.4	42.4	42.4	42.4
6.5		42.4	4.7.7	42.7	42.7	47.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7
u f		42.7	43.0	43.5	43.3	43.3	43. L	43.C	43.0	43.0	43.0	47.7	43.6	43.0	43.3	43.0	43.C
υĘ		49.7	€ 3. €	50.0	50.5	50.0	50.Q	50.0	50.0	50.7	50.0	57.0	(0.0	50.0	50.0	50.0	50.3
υť	3: 6.11	-	f 1 • C	51.0	51.0	51.3	51.0	51.0	51.0	51.7	51.0	91.7	11.3	51.0	51.3	51.0	51.3
ű i	31 951	25.0	12.6	52.6	52.5	52.6	5.7 €	52.6	52.6	52.6	52.6	5 . 5	52.6	52.6	52.6	52.6	53.0
L.E	25021	77.0	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	14.5	74.5	74.5	74.5	74.5	74.8
., -		75.0	76.5	76.5	76.5	76.5	76.5	76.5	76.5	16.5	76.5	75.5	76.5	75.5		76.5	
G C			77.	77.5	77.5	77.3	77.8	77.9	77.8	77.8	77.8	77.8	77.9	77.8	76.5 77.8	77.8	76.8 78.1
üΓ	150.1		19.5	19.1	75 . 3	79.8	74. ₺	79.9	79.6	79.8	79.6	70.4	79.4	19.8	79.8	77.8	4C.1
, r		£ 7 . 7	91.7	92.1	92.4	9.7.7	92.7	92.7	92.1	92.7	02.7		9 7	22.7	92.7	92.7	93.0
					, L. • .			7 6	-2.1	72 4 1	- 2 • 1	•		12.0	72.1	77.1	73.0
į, r	:"301	87.4	93.7	. 4 .	95.0	95.4	95.4	95.4	95.4	15.4	25.4	1 c . 4	45.4	95.4	95.4	95.4	55.1
₽	4001	F3.7	04.5	95.5	95.7	96.0	96.0	96.0	96.0	96.0	96.0	97.3	~6.5	16.7	90	96.0	96.4
1, t	93.31	97.4	0.5.	96.4	97.4	47.7	47.7	77.7	97.1	97.7	27.7	97.7	27.7	07.7	07.7	97.7	96.0
Li F	1.21	91.1	21,00	97.4	98.3	99.7	28.7	99.7	99.7	98.7	96.7		93.7	99.7	98.7	99.7	99.0
1,5	(6)	91.1	76.66	97.4	98.7	40. j	30.0	99.0	99.0	17.1	99.0	95.1	22.3	99.3	33.0	99.C	94.3
									• •							,	
4, €		91.1	26.0	97.4	98.7	99.3	69.3	99.3	99.2	99.3	99.3	40.1	ः ५ . ३	99.3	09.3	99.3	99.7
(, €		91.1	****	97.4	98.7	99.3	49.7	49.7	99.7	99. 7	79.7	40.	99.7	99.7	99.7	99.7	176.3
GF		91.1		97.4	98.7	17.5	5n. 7	99.7	29.7	99.7	99.7	99.7	99.7	49.7	0.5	\$ C . 7	100.0
UΕ		91.1	26.	97.4	98 • 1	99.3	99.7	99.7	79.7	99.7	99.7	50.7	54.1	99.7	29.7	99.7	100.0
£- \$.	1411	91 • 1	50.	97.4	'A . I	00.3	+9.7	92.7	99.7	99.7	99.7	46.7	99.7	99.7	99.7	49.7	156.1
GF		91.1		97.4	96.7	99.3	59.7	99.7	99.1	99.7	9.9.7	95.7	99.7	99.7	99.7	99.7	100.0

TOTAL NUMBER OF GISERVALIONS: 302

GLOBAL CLIMATOLOGY ERANCH AIR MEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CELLING VERSUS VISIBILITY FROM FOLGLY OBSERVATIONS

STATION NUMBER: 221130 STATION NAME: MURMANSK USSR

FERICO OF RECORD: 78-87 MONTH: JUL HOURS (LST): 2100-2300 VISIBILITY IN FUNDACES OF METERS OF GENERAL CEILING IN 1 6T FEET 1 160 GE G E G E 5E GE GE 43 8, 60 GE GE GE GE 32 24 20 16 GE 12 G E 6E 5 . 4 g 10 4 3 0 NO CETE 1 24.4 28.4 55 200501 31.8 51.9 31.8 31.8 31.8 31.8 31.9 31.6 31.8 31.8 31.8 71.8 31.8 31.8 31.6 6E 18 401 31.8 6E 160001 31.8 11.8 31.-31.6 31.8 31.8 31.8 31.6 31.6 31.9 31.8 11.8 11.8 31.8 31.8 31.8 31.8 31.8 31.8 31.8 31.8 71.5 51.4 31.8 31.6 31.6 31.0 31.8 11.8 11.8 140001 31.8 31.8 11.5 51.8 31.8 71.8 31.8 31 . B 31.8 31.3001 71.8 31.6 31.4 31.8 31.0 31.3 31.8 71.8 31.A 31.8 45.2 45.2 45.2 GE 120001 44.8 45.2 45.2 45.2 45.2 45.2 44.5 45.2 LE arcel 44.5 44.8 45.2 45.2 45.2 45.2 45.2 77601 44.8 45.2 45.2 45.2 45.2 45.2 45.2 45.2 44.8 45.2 45.2 45.2 45 . 2 45.2 45.2 45.2 45.2 45.2 45.8 45.8 45.8 45.4 45.9 45.8 45.A G F 5'001 45.5 45.5 45.8 45.0 45.8 45.8 45. 0 45.4 45.8 45.0 45001 45.5 45.5 45.8 45. B 45.8 45.8 45.8 45.6 4 - . 0 45.8 45.8 45.8 45.8 45.8 45.8 51.2 51.5 40001 53.5 35101 50.8 57 (a) 51 (2) 51.2 G E 50.5 50.3 50.8 51.2 51.2 51.2 51.2 51.2 -1.2 Uf. 50.8 51.2 51.2 51.2 51.2 51.5 51.5 51.5 51.5 51.5 51.5 51.5 25001 68.9 2 601 71.2 15001 72.9 69.9 59.6 64.5 69.6 69.6 69.6 69.9 59.4 69.9 69.9 69.9 69.9 69.9 0.8 71.9 72.2 72.2 73.9 72.2 73.7 72.2 72.2 73.9 72.6 74.2 72.6 72.6 74.7 77.5 74.2 72.6 74.2 72.6 74.2 72.6 72.6 74.2 72.6 74.2 6 E 73.9 74.2 15001 77.6 74.9 74.0 93.3 56.3 8 9 . t. 89.6 97.1 50.3 91.0 y1.7 91.0 91.0 91.0 91.3 91.0 91.0 91.0 1 201 86.6 31.6 21.3 93.3 L! 91. 92.3 92.3 92.6 95.3 +3.3 93.3 77.7 93.3 93.3 93. 1 93.3 52.6 7 3| 66.6 203| 87.3 700| 87.6 94.3 34.3 ωE 91.3 92.6 93.3 03.6 93.6 94.3 94.3 94.3 94.3 94.3 94.3 92.L 92.6 94.6 95.3 96.7 96.0 96.0 97.3 96.5 96.0 25.0 96.0 97.3 96.U 97.3 96.D 97.3 96.0 1.5 94.3 95.3 95.7 St. 7 ruul 97.3 98.7 99.7 39. 99.0 4001 69.0 24.0 94.6 96.3 28.6 99.0 99.0 99.3 79.7 100.3 99.3 99.3 99.3 99.3 99.3 400) EF.0 95., 95., 65 94.0 64.7 130.0 41.1 98.3 99.3 100.0 100.J 10J.O 96.7 95.3 99.3 99.7 100.0 100.0 100.0 100.0 3001 80.0 97.1 99.3 97.7 100.0 100.1 96.7 96.3 100.0 100.0 100.0 1.01 88.0 95.0 100.0 100.0 44.0 96.7 47.7 98.3 99. 3 19.7 100.0 109.0 100-0 26.7 100.0 58.3 100.0 1 88.0 96.7 97.7 98.3 99.3 99.7 100.6 100.0 100.0 100.0 100.0 100.0 29.3

GLULAL CLIMATOLOGY PRANCHUSAFETAC AIR WEATHER SERVICE/M/C

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSES VISIBILITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 221137 STATION HAME: MURMANSK USSR PERIOD OF RECORD: 78-87 MONTH: JUL HOURS(EST): ****************************** CEILING STER SEL VISIBILITY IN HUNDREDS OF METERS GE GE IN | GT FEET | 160 GE GE 24 2 GE GE 6E GE GE GF GŁ GE 20 30 81 40 32 10 6., NO CLIL 1 25.7 27.3 27.3 27.4 27.4 26.0 26.9 27.0 27.1 27.1 27.2 27.2 27.4 27.4 6€ 23~331 27.4 6€ 180301 27.4 29.2 29.3 29.6 29.6 28.5 29.1 29.4 29.4 29.6 29.6 28.6 29.3 29.4 29.6 29.4 29.6 29.6 28.6 29.6 29.8 29.3 29.3 27.5 29.6 29.1 29.2 29.4 29.6 29.6 29.6 0E 150001 27.4 0E 141331 27.4 6E 121001 27.4 28.6 29.6 20.0 29.1 29.2 29.3 29.3 29.4 29.4 29.6 29.6 29.6 29.6 29+1 29.3 29.3 23.4 29.6 28.5 29.2 29.3 24.4 29.4 29. £ 29.6 29.6 29.6 47.6 47.9 47.9 47.9 40.7 41.0 41.0 UE 10060] 37.4 39.₺ 39.9 4 1 . 4 42.6 43.8 40.9 41.0 41.0 41.0 46.3 6E 9000| 37.6 6F 7000| 37.6 6E 9001| 37.6 39.6 30.9 30.9 45.5 47.4 46.6 40.6 40.7 43.8 40.9 40.9 41.0 41.0 41.0 41.0 41.0 41.0 40.3 40.6 41.0 40.9 40.3 40.3 4L.6 39.€ 39.9 44.3 46.6 40.6 40.7 43.9 43.9 41.0 41.0 41.0 41.0 41.0 40.6 40.9 47.3 SCUCI 38.7 43.2 41.3 41.6 41.7 41.1 41.2 41.3 41.5 41.6 41.6 4.7.9 41.6 41.6 41.6 45001 38.6 41001 44.7 35001 45.1 41.9 41.9 41.9 42.0 42.0 40.6 44.3 41.4 41.6 41.6 48.4 43.4 ω£ 46.9 47.6 47.8 48.0 48.3 48.1 48.2 48.4 48.5 47.3 48.2 49 . F 48 . 8 48.8 48.6 48.9 6 F 47.7 48.0 44.4 48.4 48.5 48.7 48.9 70001 45.8 46.1 48.8 48.9 45.1 47.5 49.6 49.6 49.6 49.6 6 7 - 1 67.1 25101 62.3 65.5 55.00 66.2 66.4 46.7 66.7 66.8 67.0 67.1 67.1 67.1 6.7.2 67.3 2' 601 64.5 16.01 65.3 62.5 t, F 68.6 69.5 69.0 70.0 69.4 69.5 69.5 69.5 69.6 67.8 68.1 68.8 69.1 69.2 69.5 69.7 68.7 70.0 70.1 70.3 70.4 7 - 4 70.5 70.5 73.5 70.5 ù.E 71.3 65.2 72.6 87.6 15 W. L 67. 7. . 9 71.6 72.7 72.3 72 . B 72.B 72.8 72.9 86 . i # 7 **.** 3 90.7 88.0 89.0 69.4 46.1 99.3 90.5 90.8 93.9 97.9 90.9 90.9 91.0 6 F 9 JOJ 81.4 929 | 82.1 96.7 29.8 69.6 50.5 90.7 91.1 92.0 93.4 92.1 92.4 92.6 92.7 92.7 92.7 92.7 92.7 92.8 92.9 G.E 93.5 95.5 93.8 94.0 24.1 14.1 94.2 94.2 94.3 7901 83.0 92.4 ∘6 • 3 91.7 92.9 94.4 95.1 96 . II 36.2 96.6 96.9 97.1 97.1 97.1 97.1 97.2 G.E. 5001 83.3 21.9 47.5 94.4 95.6 96.9 97. 7 97.6 97.9 97.9 97.9 97.9 97.9 98.0 98.1 77.3 97.7 ьE 4661 83.4 22.5 93.4 95.2 96.2 99.0 99.3 99.1 99.1 99.1 99.1 98.2 98.7 99.2 3001 83.4 2001 83.4 32.U 32.U 93.5 95.3 97.4 99.5 99.4 96.3 97.9 96.4 90.5 99.5 99.5 99.5 99.5 99.6 U.E. 97.9 90.5 99.5 96.3 98.4 99.6 99.6 99.7 99.A 1201 83.4 95.3 99.5 99.6 95.3 99.5 99.6 6 E 93.0 93.5 97.9 99.5 99.5

CLOBAL CLIMATOLOGY BRANCH USAFLTAC FROM HOURLY OBSERVATIONS AIR WEATHER SERVICE/MAC

Pt = 100 CF PECORD: 78-87

STATION NUMBER: 201130 STATION NAME: MURMANSK USSR

•								-				PONTE	: AUC	POURS	(LST):	0000-02	Cυ
					• • • • • •												• • • • • • • • • • •
	1.11.6									HUNDREDS							
1		υŢ	0.E	9.0	υĘ	GΕ	C:	GE	GE	GE	GE	G.F.	61	GL	GE	G€	GE
-	E T I	160	911	ê.	56	4 8	46	3 2	2 4	2.3	16	1.2	10	8	5	4	0
• • •	• • • • • •	• • • • • •	• • • • • •	• • • • • • •	• • • • • •	• • • • • • •	• • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • •	• • • • • • •	• • • • • • •		• • • • • •	• • • • • • •	•••••
N 0	CETL 1	19.1	22.4	22.4	22.6	22.3	23.1	23.1	23.1	23.1	23.1	2 7 . 1	23.1	23.1	23.1	23.1	23.1
6.5	200001	20.1	24.4	24.4	24 • 6	24.8	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4
ĿΕ	16:001	20.1	24.4	24.4	24.8	24.8	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4
	160001		24.4	24.4	24 . 6	24.0	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4
	143031		24.4	24.4	24.8	24.8	25. 4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4
	iznobi		?4.4	24.4	24 • 9	24.8	25.4	25.4	25.4	25.4	25.4	20.4	25.4	25.4	25.4	25.4	25.4
6 F	ichael	30.0	76.3	36.3	36.6	37.0	37.6	37.6	37.6	37.6	37 • €	37.6	77.6	37.6	37.6	37.6	37.6
G E	90001		36.3	36.3	36 . 5	37.0	37.6	37.6	37.6	37.6	37.€	37.6	37.6	37.6	37.6	37.6	37.€
υĒ	8: ១៨		16.3	36.3	36.6	37.0	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	17.6	37.6	37.6
(F	70001		36.3	36.3	36.6	37.0	37.6	37.6	37.6	37.6	77.6	37.6	37.6	37.6	37.6	37.6	37.6
GΕ	6"00]	20.0	36.3	36 . 5	36 • 6	37.0	37.6	37.6	37.6	37.6	37.t	31.€	37.6	37.6	37.6	37.6	37.6
CE	short	30.7	37.C	37.0	37 . 3	37.6	38.6	38.6	38.6	38.6	38 • f	30.6	39.6	38.6	₹8.6	38.6	38.6
5 F	41001	31.0	37.3	37.3	30.0	3 A . 3	39.3	39.3	39.3	30.3	79.3	39.3	39.3	39.3	37.3	39.3	39.3
t: E	40001	38.0	45.2	45.2	45.9	46.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5
65	31.301	39.3	46.5	45.5	47.2	47.9	46.8	48.8	48.8	48.8	48.F	49.8	48.8	48.8	48.8	49.8	48.8
G £	31001	4€.€	47.9	47.0	48.5	49.2	50.2	50.2	53.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2
υF	25021	61.1	69.3	66.3	79.3	71.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
t E	20001	(4.4	72.6	72.6	73.6	74.6	75.6	75.6	75.6	75 • 6	75.6	70.5	75.6	75.6	75.6	75.6	75.6
(; Ę	1000		75.9	77.9	74 . 3	75.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9
υE	153n		75.2	75.2	76.2	77.2	76.2	78.2	78.2	78.2	79.2	78.2	78.2	79.2	78 • 2	78.2	78.2
ĕΕ	15034	76.2	£6.5	86.5	87.6	89.1	90.1	90.1	93.1	70.1	90.4	9~.4	90.4	93.4	90.4	90.4	96.4
υE	10001		27.1	89.1	93.8	92.1	93.4	93.4	93.4	93.4	93.7	97.7	73.7	93.7	93.7	93.7	93.7
υ£		77.6	07.d	93.0	91.4	92.7	94.1	94.1	94.1	94.1	94.4	94.4	74.4	94.4	94.4	94.4	94.4
υF		78.2	91.1	91.4	93.1	94.4	75.7	95.7	95.7	95.7	30.0	×5 + 3	10.0	96.0	96.4	96.4	96.4
6 Ր		78.0	9:.4	91.7	93.4	74.7	96.0	96.0	96 • J	96.0	96.4	46.4	95.4	36.4	96.7	96.7	96.7
८೯	6001	79.5	92.4	93.1	94.7	96.)	97.7	97.7	97.7	97.7	38.[99.0	98.0	98 • 0	98.3	98.3	98.3
υ£		73.9	÷3•1	93.7	95.4	96.7	98.3	98.3	98.3	98.3	98.7	79.7	28.7	99.7	99.0	99.0	99.0
(, Ē		78.9	73.4	74.4	76.4	97.7	99.3	99.3	99.3	99.3	99.7	43.7	97.7	99.7	100.0	100.0	100.0
G.E.		78.9	93.4	94.4	96.4	97.7	99.3	99.3	99.3	49.3	9.7	99.7	99.7	99.7	130.0	100.0	100.0
ÜE		79.9	33.4	94.4	96.4	47.7	99.3	99.3	79.3	99.3	99.7	99.7	99.7	99.7	100.0	100.0	100.0
υĘ	1031	73.9	03.4	74.4	76.4	97.7	99.3	99.3	99.3	99.3	79.7	93.7	99.7	99.7	100.0	100.0	100.0
υE	L I	70.9	93.4	94.4	96 • 4	97.7	99.3	99,3	99.3	99.3	99.7	99.7	99.7	99.7	100.0	100.0	106.0

GLOWAL CLIMATOLOGY BRANCH USAFLTAC AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY CASERVATIONS

												PERIOC MONTH	: >06	HOURS	(LST):		
11.11		• • • • •	• • • • • •	• • • • • • •	• • • • • • •	• • • • • • •		visibil					• • • • • • •	• • • • • •	• • • • • • •	• • • • • • •	•••••
IN		61	6Ł	G E	6E	GE	65	GE	GΞ	GE	GE	SE	3.6	GE	GE	GE	GE
EET	i	167	9.3		6.)	4.8	40	32	2.4	2.0	16	1.2	10	ņ	5	4	O.
• • • •		• • • • •			• • • • • • •			• • • • • • •	• • • • • • •	• • • • • • •			• • • • • • •		• • • • • •	• • • • • • •	• • • • •
CEI	IL I	18.6	23.6	21.5	22.3	22.6	23.3	23.3	23.3	23.3	23.3	2 7 • 5	23.6	24.3	24.0	24.0	24.0
21.	ادن	13.9	21.6	27.0	23.3	23.0	24.3	24.3	24.3	24.3	24.3	24.7	24.7	25.0	25.0	25.0	25.0
64	uo l	9.81	21.6	22.0	23.3	23.6	24.3	24.3	24.3	24.3	24.3	24.7	24.7	25.0	25.0	25.3	25.1
167	וכטר	18.9	21.6	62.6	23.3	23.6	24.3	24.3	24.3	24.3	24 . 2	24.7	24.7	25.0	25.0	25.0	25.
145	robi	19.9	21.6	22.6	23.3	23.6	24.3	24.3	24.3	24.3	24.3	24.7	24.7	25.3	25.0	25.0	25.1
12	-331	18.9	71.6	22.6	23.3	23.6	24.3	24.3	24.3	24.7	24.3	24.7	24.7	25.7	25.0	25.0	25.1
163	1002	.5.3	31	32.1	32.8	33.1	34.5	34.5	34.5	34.5	34.5	34.9	34.8	35.1	35.1	35.1	35.
9 1	lcur	c 3	51.1	32.1	32 . 8	33.1	34.5	34.5	34.5	34.5	74.5	34.8	34.8	35.1	35 • 1	35.1	35.
61	SUUL	25.3	31.1	32.1	32.8	33.1	34.5	34.5	34.5	34.5	34.5	34.8	74.8	35.1	35 - 1	35.1	35.
7	cul	25.3	51.1	32.1	32.8	33.1	34.5	34.5	34.5	34.5	34.5	34.8	74.8	35.1	75.1	35.1	35.
6	150'	25.3	31.1	32.1	32.8	33.1	34.5	34.5	34.5	34.5	74.5	34.9	34.8	35 • 1	*5.1	35.1	35.
5 ~	rani	.6.7	32.8	33.0	34.5	34.8	36.1	36.1	36.1	36.1	36 • 1	34.5	36.5	36.8	₹6.8	36.8	36.
4 "	611	27.4	33.6	34.0	35.0	35.8	37.2	37.2	37.2	37.2	37.2	37.5	37.5	37.8	11.8	37.8	37.
47	1001	33.1	4.3.2	41.2	42.2	42.6	43.9	43.9	43.9	43.9	43.9	44.3	44.3	44.6	44.6	44.6	44.
. 31	5 J 📗	34. 0	42.2	43.2	44.3	44.6	45.9	45.9	45.9	45.9	45.9	46.3	45.3	46.6	46.6	46.6	46.
3.	ופטי	36.1	44.3	45.3	46.3	46.6	48.D	49.0	48.0	48.0	48 • C	4 8 . 3	48.3	48.6	48.6	48.6	48.
		54.4	53.2	64.5	65.7	66.2	67.9	67.9	67.9	67.9	67.9	68 • 2	68.2	63.6	68.6	68.6	68.
		59.8	67.6	58.9	7ú • 3	70.6	72.3	72.3	72.3	72.3	72 . 3.	77.6	72.6	73.0	73.0	73.0	73.
		67.5	69.6	70.9	72.3	72.6	74.3	74.3	74.3	74.3	74.3	74.7	74.7	75.0	75.0	75.0	75.
		61.5	75.9	72.3	73.0	74.3	75.7	75.7	75.7	75 • 7	75.7	76 • 3	76.0	76.4	76.4	76.4	76.
1.3	1001	69.3	a 1 • 1	s 2 • 4	84 . 1	84.5	66.1	86.1	86.1	46.1	96 • 1	86.5	46.5	86.8	96.8	86.8	86.
		71.6	94.3	86.1	87.8	83.2	89.9	87.9	59.9	69.9	99.9	97.2	23.2	90.5	90.5	¥0.5	YU.
		72.0	: 5 • 5	86.3	36.5	89.2	91.2	91.2	91.2	11.2	91.2	9: • 6	71.6	91.9	91.9	91.9	91.
		72.6	26.6	83.5	90.5	91.2	43.2	93.2	93.2	93.2	93.2	93.6	93.6	93.9	93.9	93.9	93.
		77.6	93.2	89.7	91.9	92.9	94.9	94.9	94.9	94.9	94.9	3.6 • 3	95.3	95.6	95.6	95.6	95.
6	231	74.C	59.2	90.9	92.3	93.9	96.3	96.3	96.3	96.3	36.3	95.6	96 • 6	97.0	97.0	97.0	97.
		74.7	12.5	91.9	94.3	95.3	97.6	97.6	97.6	97.6	97.6	98.7	99.0	98.3	98.3	98.3	98.
		74.3	9.0	23.2	95.5	96 • 6	99. C	99.0	99.0	99.7	99 • C	30.3	99.3	99.7	99.7	99.7	99.
		74.3	91.2	93.6	35.9	97.3	59.3	99.3	99.3	99.3	99.3	92.7	99.7	100.0	100.0	100.0	100.
		74.3	91.2	93.6	95.9	97.J	99.3	99.3	99.3	99.3	99.3	97.7	99.7	100.3	170.0	100.0	100.
:	.061	74.3	71.2	93.6	95.9	97.3	55.3	99.3	99.3	99.3	99.3	99.7	99.7	100.0	120+0	100.0	106.
	- 1	74.3	71.2	93.5	95.9	97.3	99.3	99.3	77. Z	99.3	99.3	99.7	99.7	100.0	170.0	100.0	100.

GLORAL CLIMATOLOGY BRANCH USAFETAC AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

STATION NU	MPER: 2	221139	STATIO	ON NAME:	MURMA	INSK US	SR						OPD: 78-	-		
											MONTH:			ILSTI: (
	• • • • • •	• • • • • •	•••••	• • • • • • •	• • • • • •								• • • • • • •	• • • • • •	• • • • • •	• • • • • • • • • • • • • • • • • • • •
CEILING IN I	5 T	JF	6.6	úΕ	GE	GΞ	VISIBIL: GE	GE GE	UNDREUS SE	GE	36	GE	Sε	GE	GE	GE
	162	9.	4.5	63	48	40	32	24	20	16	1?	10	3.5	5	4	O C
		_				-							_			
			•••••				••••	••••	• • • • • • • • •				• • • • • • •			
NO CETE	12.9	13.9	14.2	15.0	16.5	16.9	17.9	18.2	48 • 2	19.2	1 2 . 2	19.2	18.2	19.5	19.5	19.9
GE 200001	14.2	15.2	15.9	17.2	18.2	18.5	19.5	19.9	19.9	19.9	17.9	19.9	19.9	71.2	21.2	21.5
GE 18003		15.2	15.9	17.2	19.2	18.5	19.5	19.9	19.9	19.9	12.9	19.9	19.9	21.2	21.2	21.5
65 160001		15.2	15.9	17.2	10.2	16.5	19.5	19.9	19.9	19.5	12.7	19.9	19.9	21.2	21.2	21.5
UE 140001	14.2	15.2	15.9	17.2	19.2	18.5	19.5	19.9	19.9	19.5	17.7	19.9	19.7	71.2	21.2	21.5
GE langoi	14.2	15.2	15.9	17.2	18.2	18.5	19.5	19.9	19.9	19.9	13.9	19.9	19.9	71.2	21.2	21.5
65 13000).	23.5	27.5	28.5	33.5	31.5	32.1	33.1	33.4	33.4	?3.4	37.9	33.8	33.8	35.1	35.1	35.4
0ξ 9°00].		21.5	28.5	30.5	31.5	32.1	33.1	33.4	33.4	33.4	33.8	33.8	33.8	35.1	35.1	35.4
SE 80001		21.5	23.5	30 • 5	31.5	32.1	33.1	33.4	53.4	33.4	37.8	33.A	33.8	35 • 1	35 • 1	35.4
∪E 7183].		27.5	29.5	30.5	31.5	32.1	33.1	33.4	33.4	73.4	33.9	33.8	33.9	35.1	35.1	35.4
GE 61071.	23.8	27.8	25.6	30.8	31.6	32 • 5	33.4	33.8	33.8	33.6	34.1	34.1	34.1	₹5.4	35,4	35.8
UE 51371.	24.2	23.1	29.1	31.5	32.5	33.1	34.1	34.4	34.4	34 . 4	34.9	34.8	34.8	36.1	36.1	36.4
CE 4°3∪]:	24.2	23.5	29.5	31.3	32.8	33.4	34.4	34.8	34.8	34.8	35.1	35.1	35 • I	36 • 4	36.4	36.8
EE 4730]	2° • 8	34.4	35.€	38 • 1	39.1	4C. 1	41.1	41.4	41.4	41.4	41.7	41.7	41.7	43.0	43.C	43.4
5E 35531	33.1	34.9	36.1	38.4	39.7	40.7	41.7	42.1	42.1	42.1	42.4	42.4	42.4	43.7	43.7	44.D
6F 3.551	3745	35.1	36.€	39 - 1	40.4	41.4	42.4	42.7	42.7	42.7	43.D	43.0	43.0	44.4	44.4	44.7
60 21301	45.7	62.6	54.3	57.3	58.6	59.9	63.9	61.3	01.3	61.3	61.6	61.6	61.6	62.9	62.9	63.2
of 20001		55.3	57.0	59.6	61.3	62.6	63.6	63.9	63.9	63.9	64.2	64.2	64.2	65.6	65.6	65.9
65 1FUNI		56.0	57.6	60.3	61.5	63.2	64.2	64.6	64.6	64.6	64.7	64.9	64.9	66.2	66.2	66.6
6E 1500H	50.3	53.6	60.0	63.2	64.7	66.2	67.2	67.5	67.5	67.5	67.9	67.9	67.9	69.2	69.2	69.5
ot 1250l	59.3	71.5	73.5	76 • 5	79.5	90.8	81.9	82.1	82.5	92.5	5.2.9	82.8	82.8	84.1	84.1	84.4
UE 17001	62.9	75.8	77.8	81.1	67.1	65.4	46.4	86.8	87.1	87.1	67.4	47.4	87.4	88.7	88.7	69.1
GE 9331	67.2	76.5	78.5	81.5	03.8	96.1	87.1	87.4	87.7	97.7	5 2 . 1	88 - 1	88.1	99.4	80.4	89.7
SE PUS}	64.6	70.1	80.8	P4 - 1	86.1	F8.4	89.4	89.7	90.1	90 • 1	91.0	99.4	90.4	91.7	91.7	92.1
GE 7051	65.6	a 7. 1	83.1	90.4	89.7	91.1	92.1	92.4	92.7	92.7	9 4.0	93.5	93.0	94.4	94.4	94.7
0E 0051	65.9	9J.5	83.4	27.1	87.4	91.7	92.7	93.C	93.4	93.4	93.7	93.7	93.7	95•j	95.0	95.4
65 5601		#1.1	84.4	88 • 1	90.4	92.7	93.7	94.0	94.4	74.4	94.7	94.7	94.7	96.0	96.0	96.4
6E 4071		°1.5	84.9	89 . 7	91.4	93.7	94.7	95 • C	75.4	75.4	35.7	76 · D	96 • D	97.4	97.4	97.7
65 730 F		-1.5	84.5	88.7	91.4	54. D	95.0	95.4	95.7	95.7	96.0	76.4	96.4	97.7	97.7	98.J
6 <u>E 252</u> j		A1.5	64.8	88 • 7	91.4	94.0	95.0	95.7	96.2	46.0	96.4	96.7	96.7	98 • D	98.0	98.3
GE 1071	66.2	91.5	84.6	88 • 7	91.4	54. C	95 •C	95.7	96.0	96 • C	94.4	76 • 7	96.7	98+0	98.0	100.0
CE I	66.2	41.5	04.P	88 • 7	92.4	94.5	95 • 0	95.7	96.0	96.0	96.4	-6.7	96.7	98.0	98.0	100.0

GLOBAL CLIMATOLOGY BRANCH LSAFETAC AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSECVATIONS

STATION NUMBER: 221130 STATION NAME: MURMANSK USSR

PERIOD OF RECORD: 78-87 VISIBILITY IN HUNDREUS OF METERS

GE GE GE GE GE
40 32 2" MONTH: AUG HOURSTESTI: 0900-1100 CEILIMG IN | GT ſĘ GF RD GE 48 G f. GŁ GF G٢ GE GE GF 1 160 90 60 9 5 1.0 CEIL 1 14.7 17.6 17.6 17.6 17.6 17.6 17.6 17.6 17.6 17.6 17.5 17.6 18.3 18.3 18.3 16.6 19.6 17.6 20.3 20.3 GE gueon! 15.7 19.3 19.3 19.3 19.3 19.6 19.6 10.6 19.6 20.3 20.6 20.9 19.3 6E 181931 15.7 19.3 19.3 19.3 19.3 19.6 19.6 19.6 19.€ 1 . . 6 19.0 20.3 20.6 20.9 6E 16"00| 15.7 6E 14000| 15.7 19.3 19.3 19.6 19.6 14.6 19.6 19.5 20.3 20.6 19.6 17.5 19.3 19.3 19.3 17.3 19. 3 19.6 19.6 19.6 19.€ 17.6 20.3 20.3 20.6 20.9 JE 12000 15.7 19.6 20.3 20.3 23.6 20.9 19.3 19.6 19.6 19.3 19.3 GE 100001 22.9 28.4 28.4 28.4 28.4 29.1 29.1 29.4 29.7 26.8 27.1 27.5 27.5 28.1 28.4 28.4 28.4 28.4 6 E 9001 22.9 8001 22.9 26.8 27.1 27.5 27.5 28.4 28.4 28.4 20.4 28.4 28.4 29.1 29.1 29.1 29.4 29.7 28.1 28.1 70001 22.9 27.5 29.1 29.4 60001 22.9 25.8 27.1 28.4 78.4 29.1 29.4 29.7 20.4 37.1 37.0 GE 5:001 23.9 28.1 29.4 30.7 27.8 23.4 29.1 29.1 29.4 29.4 30.1 30.4 23 . 4 29.4 29.4 37.1 45Jnl 24.2 49801 27.1 23.1 29.1 50.1 30 - 1 30.1 30.7 GΕ 32.1 33.0 30.1 33.0 33.7 33.7 31.0 31.4 32.4 32.4 33.0 33 • U 13 • 3 34.0 31.4 32.7 33.0 34.3 34.6 51.7 57.3 35001 27.5 31.4 73.3 33.3 74.0 S E 33. J 33.3 34.9 3:001 27.8 öΕ 32.7 73.7 34.3 35.0 25391 48.4 20001 52.6 55.9 56.2 56.7 56.9 57.8 58.5 50.5 58.5 59.2 59.2 59.5 59.8 58.2 61 63.7 05.7 67.7 65.7 63.4 63.7 65.7 64.7 61.1 51.4 62.1 62.1 63.1 63.4 63.7 64.4 54.4 65.0 10001 53.6 53.1 63.7 63.7 65+ Q 65.4 65.7 66.3 66.3 67.0 66.7 60.4 (.F 15001 55.9 45.0 65.4 60.7 68.0 69.3 68. 3 08.6 68.6 68 - 6 69.1 69.3 69.6 69.9 12021 73.6 84.6 R6.6 P7.6 88.2 U.E 32.0 82.4 84.0 84.0 85.6 86.3 96.3 46.6 96.9 87.6 1:001 72.5 85.9 R7.6 87.5 89.2 89.9 20.5 97.5 91.5 91.5 92.2 SE :5. 89.9 90.5 00.8 91.8 91.5 92.5 97.8 υĒ 9001 73.2 9001 73.5 25.9 36.9 88 - 5 89.6 91.2 97.8 90.9 91.5 91.5 91.8 92.8 92.5 92.5 92.8 93.1 GE 06.6 67.6 87.5 89.5 91.8 91.9 92.5 ¥3.8 94.1 94.1 90.5 93.8 93.8 υE 7U.5 91.0 ٦,٠ 39.9 95.1 75.1 98.1 95.4 96.1 96.1 96.4 96.7 90.2 6 E 5001 7445 34.0 92.2 92.2 94.1 94.8 95.1 95.8 25.6 9°.9 96.1 96.7 96.7 97.1 97.4 92.2 4371 74.5 96.1 97.4 97.4 97.2 97.7 49.2 94.4 95.1 96.4 92.2 95.4 ¥6 · 1 96.1 97 • 1 98 • 4 97.1 97.4 3001 74.5 2001 74.5 97.1 99.0 ع د e).5 97.5 92.5 95.1 95.8 96.1 96.7 98.4 98.7 17.5 99.5 92.8 GΕ 92.5 95.1 95.8 96.1 96.7 97.7 98.4 98.4 98.7 75. i 95.8 96.1 97.1 01 74.5 97.5 96.1 95.8 16.7 \$7.7 98.4 98.4

GLURAL CLIMATOLOGY BRANCH USAFETAC AIR WEATHER SFRVICE/MAC

PERCENTAGE FREQUENCY OF OCCURPENCE OF CEILING VERSUS VISIBILITY FROM FOURLY OBSERVATIONS

			221130				-					MONTH) OF PEC	HOURS	(LST1:		00
CE	LING	• • • • • •	• • • • • •	• • • • • • •	• • • • • • •	• • • • • • •			TY IN				•••••	• • • • • • •	• • • • • • •	• • • • • • •	•••••
	N I	61	GF	GE	GF	SE	GE.	GE	.117 LN	GE	GE GE	SL	6.6	GΕ	GF	GE	GE
	ET I	160	37	43	65	40	46	32	24	27	16	12	12	م و	٠ <u>ر</u>	UE 4	Ü
								• • • • • •									
		•••													******		
14.0	CLIF	15.7	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1
GE	200001	10.7	20.4	23.4	20.4	27.4	20.7	23.7	2ú. 7	23.7	73.7	27.7	23.7	20.7	20.7	20.7	20.7
ų Ę	140001	14.7	2J.4	20.4	23.4	23.4	20.7	23.7	23.7	23.7	20.7	20.7	23.7	20.7	23.7	20.7	20.7
	167301		23.4	23.4	20 • 4	27.4	20.7	20.7	20.7	23.7	20.7	2 . 7	23.7	23.7	20.7	20.7	20.7
	147001		2 . 4	23.4	23.4	23.4	20.7	23.7	20.7	20.7	23.7	20.7	23.7	20.7	20.7	20.7	20.7
	13-451		23.4	27.4	23.4	23.4	20.7	20.7	20.7	20.7	23.7	27.7	27.7	20.7	20.7	22.7	20.7
-		• •	2 3 4 4	2:17	23.4	2014	2001	20.1	20.7	2001	23.1	• •	2 7 . 7 .	200	2001	23.1	23.7
5 F	100001	25.1	27.4	27.4	27.4	27.4	28.1	28.1	28.1	26.1	28.1	20.1	.79.1	28.1	70.	^ e . 1	28.1
G.E.	91001		27.4	27.4	27.4	27.4	28.1	29.1	28.1	28.1	28.1	28.1	28.1	28.1	26.1	. 8 . 1	28.1
6 E	9 571		27.4	27.4	27.4	27.4	28.1	28.1	28.1	28.1	28.1	20.1	29.1	29.1	28.1		
úΕ	7 100		27.4	27.4	27.4	27.4	26.1	28.1	28.1	28.1	28.1	20.1	28.1	29.1		22.1	28.1
υE	60001		27.4	27.4	27.4	27.4		_							28.1	28.1	28.1
() C	9. 00 1	2 3 4 2	- / • 4	27.4	2111	21.4	28.1	28.1	28.1	28 • 1	28.1	2 - 1	23.1	29 • 1	28.1	2 R . 1	28.1
bΕ	50011	25.8	23.1	28.1	28.1	28.1	26.8	29.9	28.8	28.9	28.8	20.8	29.8	28.8	28 . A	29.8	26.8
9.5	45001		29.1	29.1	29 • 1	29 . i	29.8	29.8	29.8	29.8	29.8	20.3	29.8	29.9	+		
GE	41001		35.5	35.5	35.5	35.5	₹6.1	36.1	36.1	36.1	76.1	36.1	36.1		29.8	29.8	29.8
υE	35331		37.1	37.1	37 • 1		_							36.1	36.1	36.1	36.1
6.5	30301		39.1	37.1		37.1	77.8	37.8	37.8	37.8	37 • 8	37.9	37.8	37.8	37.8	37.8	37.8
	3.001	30.1	3741	3 / • 1	39.1	39.1	39.8	39.8	39.8	39.8	39.8	30 ª u	19.8	39.8	39.8	39.8	39.8
GΕ	25001	64.2	68.2	59.6	68 • 6	68.6	69.2	69.2	69.2	69.2	69.2	00.7	69.2	69.2	69.2	69.2	69.2
CE	2:501		71.6	71.9	71.9	71.9	72.6	72.6	72.6	72.6	72.6	12.6	72.6	72.6	72.6	72.6	72.6
űΕ	19301		73.6	73.9	73.9	73.9	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6
5.5		71.6	75.9	76.3	76.3	75.3	76.9	76.9	76.9	76.9	75.9	71 9	76.9		76.9		
ψE	12301		21.U	₹1.3	91.3	91.3	92.0	92.0	92.0	92.7	92.5	97.3	92.0	76.9		76.9	76.9
• •	1.331	7.0		,	71	74.0	7240	72.0	42.0	72.	42.5	9. • ;	42.0	92 • J	92.0	92.0	92.0
υE	17001	85.3	73.0	93.3	93.3	93.3	94.6	94.6	94.6	74.6	94.6	74.6	94.6	94.6	94.6	94.6	94.6
5 F	9201	86.3	34.3	94.6	94.5	94.6	76.0	96.0	96.0	96.0	96.0	94.7	35.0	96.0	96.0	96.0	95•J
υE	9001	85.6	74.3	95.	95.0	95.0	76.7	96.7	96.7	96.7	96.7	24.7	95.7	96 • 7	96.7	96.7	96.7
٦٠		97.9	25.3	96.3	96.7	97.J	98.7	98.7	98.7	98.7	98.7	28	98.7	98 • 7	98.7	98.7	98.7
űΕ		67.2	35.7	96.3	97.3	97.3	99.0	99.0	99.3	99.0	99.0	97.7	99.0	99.7	99.3	99.0	
-		0	,,,,	40.7	71 • 3	71.5	77.0	77.0	7743	77.u	79.0	4,	44.0	99.1	44.3	99.0	99.0
GE	5 101	87.0	95.7	96.3	97.J	97.3	79. D	99.0	99.0	99.0	99.0	97.3	97.0	99.0	99.3	99.0	99.0
is 5	4001	97.0	25.7	96.7	97.5	91.7	99.3	99.3	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
6 E		87.0	95.7	76.7	97.3	97.7	99.3	99.3	99.7	99.7	99.7	92.7	99.7	99.7	99.1	99.7	99.7
υE		87.0	25.7	96.7	97.3	98.0	59.7	99.7	100.0	150.0	100.0	102.3	100.0	100.0			
GE		67.n	95.7	96.7	97.3	99.3	79.7	99.7	103.0	100.0					100.0	100.0	100.0
				,0.	. 1 • 3	₹ 7 • J	774 /	77.1	103+U	103.0	130.0	190.0	100.0	100.0	170.0	100.0	100.0
65	- 1	57.0	95.7	96.7	97.3	98.0	99.7	97.7	100.0	100.0	100.0	100.0	100.0	100.0	120.0	160.0	100.0

CLUBAL CLIMATOLOGY RRANCH USAFETAC AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OUSERVATIONS

STA	TION N	umbLR:	221130	STATE	ON NAME	: MURM	ANSK US	S.R					OF PEC				_
													: 406			1500-17	60
	LING		• • • • • •	• • • • • • •	• • • • • • •	• • • • • • •		VISIBIL	ITY IN	F UN DR ED	S OF ME	TERS	• • • • • • •				
		r, I	49	GF	GF	GE	GĒ	GE	G F	G £.	GΕ	r. E	GΓ	GE	GE	3.6	GE.
FE		160	30	87	34	4.8	4 D	32	24	2.0	16	1.2	1.0	A	5	4	0
• • •	• • • • • •	• • • • • •	• • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	•••••	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	
N _t D	CETL 1	16.2	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5
υE	100005	15.9	70.2	23.2	20.2	27.2	26.2	27.2	20.2	20.2	20.2	20.2	25.2	20.2	20.2	20.2	20.2
ŀΕ	100001	18.9	20.2	20.2	20.2	20 + 2	25.2	20.2	20 • 2	20 • 2	20.2	20.2	23.2	20.2	20.2	20.2	20.2
GΕ	161001	19.9	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	27.2	20.2	29.2	20.2	20.2	20.2
6 E	140331	18.9	25.2	10.2	26.2	20.2	26.2	29.2	20.2	20.2	20.2	20.2	ີ່ສ•2	29.2	20.2	20.2	20.2
C E	12/001	18.9	20.2	56.5	24.2	20.2	20.2	20.2	20.2	∠3·2	20.2	27.2	00.2	23.2	50.5	20.2	20.2
1.3	100001	26.2	27.8	27.9	27.8	27.8	27.8	27.8	27.8	27.8	77.5	; 7 . Q	27.8	27.5	27.8	27.8	27.8
G.E	90001		27.8	27.8	27.8	47.8	27.8	27.8	27.8	27.8	27.8	27.8	27.6	27.8	27.8	27.8	27.8
UΕ	8 001		27.b	27.9	27.6	27.8	27.8	27.8	27.8	27.8	27.8	27.9	27.8	27.8	27.8	27.8	27.8
6.5	7 '001		. 8.1	23.1	28 • 1	28.1	26.1	28.1	28.1	28 • 1	28.1	20.1	. 8 . 1	29.1	25.1	28.1	28.1
υE	60001		26.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	2 4 • 1	28.1	28.1	28 - 1	28.1	26.1
				30.0	20. 0	20.0	30.0	70.0	20.0	28.8	28.8	20.0	29.8	29.3	20 0	28.8	28.6
6 E	51001 45001		28.8 29.5	3.85	23 • 8	28.8	28.8	28.8 29.5	28.8 29.5	29.5	29.5	20.5	29.5	29.5	28 • 8 29 • 5	20.5	29.5
6 E	40001 40001		74.4	29.5 34.4	29.5 34.4	29.5 34.4	29.5 34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4	24.5 34.4
65	31.001		35.8	35.5	35 e d	35.8	35.8	35.8	35.8	35.3	35.6	35.3	35.8	35.8	35.8	35.8	.5.8
G E	30001		37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	3 7 . 4	77.4	37.4	37.4	37.4	37.4
o c	20001	3,		3,,,,	37.	3/14	3147	3. • •	3,4,	3,	•		. (• •	J. • •	,,,,	3,	3.4.
しこ	25.001	70.2	72.5	72.5	72.8	72.€	73.2	73.2	73.2	13.2	73.2	77.2	73.2	73.2	73.2	73.2	73.2
Ŀ£	2000	72.8	75.5	15.5	75.8	75.8	76.2	76.2	76.2	76.2	76.2	16.2	76.2	76.2	76.2	76.2	76.2
しき	19001	75.2	7.3.1	78 - 1	78.5	78.5	76.8	79.8	78. a	78.8	7a.e	72.3	78.8	78.8	78.8	78.8	78.8
CE	15371		78.5	78.5	70.8	78.8	79.1	79.1	79.1	19.1	79.1	19.1	77.1	79.1	79.1	79.1	79.1
(, F.	12001	59.4	43.7	93.7	94.7	94.7	95.0	95.0	95.0	95.4	95.4	35.44	95.4	95.4	95.4	95.4	95.4
υÉ	1:301	89.7	95.4	25.4	96.4	95.4	96.7	96.7	96.7	97.7	97.0	27.7	97.0	97.0	97.0	97.0	97.0
u F	20.1	89.7	95.7	95.7	96.7	95.7	77.4	97.4	97.4	77.7	97.7	37.7	97.7	97.7	97.7	97.7	97.7
υE	9601	89.7	96.7	96.7	97.7	97.7	98.3	99.3	98.3	38.7	78.7	90.7	98.7	99.7	98.7	98.7	96.7
(, Ē	7601	£9.7	97.4	97.4	98.3	92.3	99.0	99.3	99.0	99.3	99.3	०० , र	69.3	99.3	99.3	99.3	99.3
ιE	6531	89.7	77.4	97.4	38 • 3	93.3	79.0	99.0	39.3	99.3	99.3	35.3	9.3	99.3	09.3	99.3	99.3
ωE	F. (2.2)	89.7	97.7	97.7	98.7	99.7	99.3	99.3	99.3	99.7	99.7	42.7	49.7	99.7	99.7	99.7	99.7
5.5		89.7	27.7	97.7	98.7	99.1	79.7	99.7	99.7	143.0	120.0	137.0	100.0	130.0	100.0	100.0	100.0
65		89.7	21.7	97.7	96.7	98.7	79.7	99.7	99.7	100.0	100.0	107.0	100.0	100.0	100.0	100.0	100.0
68		89.7	97.7	97.7	98.7	93.7	79.7	99.7	99.7	100.7	100.0	107.0	ו יפרו	100.0	100.0	100.0	100.0
6 E		89.7	97.7	97.7	98.7	98.7	99.7	99.7	99.7	1,0.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
65	11	89.7	97.7	97.7	98.7	93.7	99.7	99.7	99.7	100.0	100.0	ian•o	120.0	100.0	100.0	100.0	100.0

GLOBAL CLIMATOLOGY REANCH
PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
USAFETAG
FROM HOURLY OBSERVATIONS
AIR WEATHER SERVICE/MAC

STAT	IICH N	UMPER:	221130	STATI	ON NAME:	MURM:	ANSK US	S.R					OF PEC				
													l: #U6		(LST):	1900-20	60
CEIL		• • • • • •	• • • • • •	,	• • • • • • •			VISIBIL					• • • • • • •	• • • • • • •		• • • • • • •	
11		0.1	GE	Gf	GE	SE	65	GE	GE	GŁ.	GF	n n E	SI	GE	GΕ	GE	Ĺ₹
FLL	•	160	30	3.3	6.3	4 8	40	32	24	20	16	12	10	8	5	4	0
																• • • • • •	
NO (ETL I	17.7	19.4	18.4	13.4	13,4	18.4	18.4	18.4	18.4	18.4	15.4	13.4	18.4	18.4	14.4	16.4
	echapt	70.7	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	71.4	21.4	21.4	21.4	71.4	21.4	21.4
	180001		21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4
	1037		21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	71.4	21.4	21.4	21.4	21.4
	147031		21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4
	12:331		21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4
0.0			41.4	21.4	21.44	21.4	2444	-1.	51.4	21.4	21.4	21.4	21.4	21.4	21.7	21.4	21.4
6E 3	100001	37.0	31.8	31.0	31.9	31.8	21.9	31.8	31.8	31.9	31.8	31.4	32.1	32.1	32.1	32.1	32.1
G E	90001		31.8	31.9	31.0	31.9	31.8	31.8	31.8	31.9	31.8	31.9	32.1	32.1	32.1	32.1	32.1
ű E	81331		31.0	31.0	11.8	31.3	31.8	31.0	31.8	31.8	71.8	31.8	32.1	32.1	32.1	32.1	32.1
	70001		31.8	31.6	31.8	31.6	31.8	31.8	31.8	31.9	31.8	31.8	32.1	32.1	12.1	32.1	32.1
Ü.E	6"001		32.1	32.1	32.1	32.1	32 1	32.1	32.1	32.1	12.1	32.1	32.4	32.4	32.4	32.4	32.4
•											,						
6 F	5000i	31.9	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	37.1	33.4	33.4	33.4	33.4	33.4
Ŀξ	45001	37.1	34.4	34.4	34 • 4	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.8	34 . 9	34.8	34.8	34.8
GE	41 661	40.5	42.1	92.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	47.1	42.5	42.5	42.5	42.5	42.5
6.5	35001	42.5	44.1	44.1	44.1	44.1	44.1	44 . 1	44, 2	44.1	44.1	44.1	44.5	44.5	44.5	44.5	44.5
CE	30001	44.5	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	44.2	46.5	46.5	46.5	46.5	46.5
υE	21,304		75.9	16.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.9	76.9	16.9	76.9	76.9
GΕ	2. 321	76.0	73.9	19.6	79.6	77.6	79.6	79.6	79.6	79.6	79.6	79.6	77.9	79.9	79.9	79.9	79.9
6 F	19.00	79. 3	د ۱۰ €	87.9	80.9	87.9	80.9	87.9	90.9	80.9	90.9	80.9	81.3	81.3	91.3	61.3	81.3
LΕ	1,001		56	81.3	81.5	61.3	81.3	81.3	81.3	81.3	P1.3	81.3	81.6	81.6	81.6	81.6	81.6
υE	12001	83.0	91.6	92.3	92.3	92.3	92.6	92.6	92.6	92.6	92.6	97.6	93.0	93.3	93.0	93.0	93.0
υE	1,001		92.3	9 4 . 6	93.6	93.6	94.0	94.0	94.C	94.0	94.0	94.7	94.3	94.3	94.3	94.3	94.3
€.		87.0	93.0	95.3	95.3	95.7	96.0	96.0	66. N	46.0	96 • C	95.0	96.3	96.3	96.3	96.3	96.3
GΞ		89.3	93.3	25.7	95.7	96.0	96.3	96.7	96.7	96 • 7	96.7	96.7	97.ü	97.0	97.0	97.0	97.0
UΕ		90.0	25.0	77.3	97.7	98.0	98.7	99.0	99.0	99.3	99.0	გე•ე	99.3	99.3	99.3	99.3	99.3
C.E.	6201	90°C	75.C	97.3	97.7	48.	c E • 7	99.0	99.C	99.3	99•6	99.0	99.3	99.3	99.3	99.3	99.3
GE	6. (2.1	97.0	95.J	97.3	97.7	98.5	28.7	99.0	00.0	00.0	99.[66.0	00.	00.7	99.3	99.3	99.3
					-	-			99.0	99.3		90.3	99.3	99.3			
G E G E		90.0	55.7 95.7	98.0	98 - 3	96.1	79.3	99.7	99.7	99.7	99.7	90.7	100.0	100.9	100.0	100.0	100.0
6 E		90.0 90.0	95.7	98.n 98.a	98 • 3 98 • 3	98.7 98.7	99.3 99.3	99.7 99.7	99.7	99.7	79.7	90.7	100.0	100.0	100.0	160.0	100.0
υE		97.0	95.7	98.0	98 • 3	98.7	99.3	99.7	99.7	99.7	99.7	99.7	100.0	100.0	100.0	160.0	100.0
C C	1001	•	• 4 • 1	70.0	40.7	4 . 1	44.3	44.1	99.7	99.7	99.7	90.7	100.0	100.0	100.0	100.0	100.0
GΕ	:1	97.0	25.7	98	96.3	98.7	99.3	99.7	99.7	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0
																	

GLOHAL CLIMATOLOGY ERANCH USAFETAC AIR WEATHER SEPVICE/MAC

PERCENTAGE FREQUENCY OF OCCUPPENCE OF CELLING VEHSUS VINIBILITY FROM HOUGLY $\sigma_{0.5} \xi_{0.7} \eta_{0.7} \tau_{0.7}

STATION NUMBER:	221130	STATE	ON NAME:	HURH	ANSK US	SR					OF FEC					
										· MONTH			(LSTI:			
CEILING						v15111	JIY IN	HUNDRED	S OF ME	TER"				• • • • • •		•
TO 1 NI	66	t, f	6 E	GE	G٤	GΕ	64	GE	GE	ſŧ	51	G.E.	hξ	(+E	GE	
FEET 160	9.0	1.	63	46	4 3	32	24	2.0	1 t	1,	1.5	Ą	5	4	Ĺ	
• • • • • • • • • • • • • • • • • • • •			• • • • • •	• • • • • •	• • • • • •	• • • • • •	• • • • • • •	• • • • • • •	• • • • • •	• • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •		•
NO CEIL 1 27.6	23.9	23.0	23.9	23,4	23.9	23.9	23.9	23.9	23.9	21.7	23.9	23.7	23.9	23.9	23.9	
				-												
GE 207801 26.9	27.2	27.2	27.2	27.2	27.2	27.2	27.2	61.7	27.2	. 7	27.2	27.0	21.2	27.2	21.2	
⊍F 16883] 26.9	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.0	27.2	27.2	27.2	27.2	27.2	
6E 16 GOT 26.9	27.2	27.2	21.2	27.2	27 . 2	27.2	27.2	21.2	27.2	2	27.2	21.2	27.2	27.2	21.2	
65 197801 26.9	27.2	27.2	27.2	27.2	27.2	27.2	21.2	27.2	27.2	27.2	21.2	21.2	27.2	27.2	21.2	
UE 127501 26.9	27.6	21.6	27.6	27.6	27.6	27.6	77.6	27.5	27.6	27.6	27.6	27.6	77.6	27.6	77.6	
JE 100031 39.5	41.5	41.5	41.5	41.5	41.9	41.9	41.9	41.9	41.5	41.9	41.9	41.9	41.9	41.9	41.9	
UE 97001 39.5	41.5	41.5	41.5	41.5	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.7	41.5	
65 87601 39.5	41.5	41.5	45	41.5	41.9	41.9	41.4	41.9	41.0	41.3	91.9	41.9	41.9	41.9	41.9	
6E 7 33 39.5	41.5	11.5	41.5	41.5	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	
6E 60001 39.9	41.9	41.9	41.9	41.5	42.2	42.2	42.2	12.2	42.2	47.2	42.2	42.2	42.2	47.2	42.2	
							-									
GE 57831 41.2	4 % 2	43.2	43.2	43.2	43.5	43.5	43.5	43.5	43.5	4 7 . 5	45.5	43.5	43.5	43.5	43.5	
65 4500 4.,9	4 1. 4	43.4	43.9	43.7	44.2	44.2	44.2	44.2	44.2	44.0	44.2	44.0	44.2	44.2	44.2	
40001 47.5	47.5	49.5	47.5	49.5	49.8	49.8	49.8	49.9	49.8	40.0	47.8	47.5	44.8	49.8	44.6	
GE 35011 49.5	£3.8	50.5	50.0	50.3	51.2	51.2	51.2	51.2	51.2	51.7	51.2	51.?	F.1.2	51.2	51·2	
GE 37601 57.5	52.8	57.8	52.8	52.0	53.2	53.2	53.2	53.2	53.2	5 1.2	5 * + 2	53.2	53.2	53.2	53.2	
GE 25001 71.4	74.8	74.0	74 . 3	74.8	75.1	75.1	75.1	75.1	75 • 1	75.1	75.1	75.1	75.1	75.1	75.1	
GE 21301 74.4	77.7	77.7	77.7	17.7	78.1	79.1	76 - 1	78.1	78 - 1	7 2 1	70.1	78.1	78.1	78.1	78.1	
CF 18 ml 75.1	79.4	7 0 .4	78 - 4	78.4	78.7	79.7	78.7	78 - 7	78.7	70.7	75.7	78.7	78.7	78.7	78.7	
GF 15001 76.1	79.4	79.4	79.4	79.4	79.7	79.7	79.1	19.7	79.7	- 0	79.7	79.7	79.7	79.7	79.7	
95 1330 85.7	ن ور: د	97.7	92.0	91.0	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	
uf 16301 86.6	91.4	92.5	0 7	92.7	93.4	93.4	93.4	93.4	93.4	92.4	03.4	93.4	03.4	93.4	93.4	
LF 933 87.4	72.7	93.4	94)	94	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	
GE ESSI 67.7	93.4	94.4	95 • 3	95.3	96.E	96.0	96.0	96 • C	96.0	95.	96.0	96.0	96.0	96 • D	96.0	
OE 7001 89.7	95.3	76.3	98 • ú	91.0	98.7	98.7	98.7	98.7	98.7	90.7	95.7	99.7	98.7	90.7	98.7	
SE 6401 89.0	95.7	96.7	98.3	98.7	99.3	97.3	99.3	99.3	99.3	90.3	99.3	99.3	99.3	99.3	99.3	
) C C S) I G / I	7341	, , , ,	,0.3	70.1	77.3	7763	77.3	,,,,	****	,	.,,,	****	.,,,	* * * 3	,,,,	
GE 5001 89.0	96.0	97.0	98.7	99.7	99.7	99.7	99.7	99.7	09.7	97.7	99.7	99.7	99.7	99.7	99.7	
65 407 89.F	76.0	97.0	98.7	99.3	1 36 • 0	100.0	100.0	100.0	173.0	137.7	190.0	100.0	100.0	100.0	100.0	
GF 300 1 89∙0	90.0	97.3	98 • 7	99.0	100.0	160.0	100.0	160.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
0E 7J0 89•F	76.5	97.0	98.7	99.0	100.G	133.0	100.0	100.3	100.0	150.0	100.0	100.0	100.0	100.0	100.0	
7.98 10.1 30	95.0	97.3	98.7	99	1 30.0	100.3	133.0	100.0	170.0	107.5	100.0	100.0	100.0	100.0	100.0	
UF 31 69.0	96.0	97.0	98.7	99.1	1.76.0	102.3	100.0	100.5	100.0	102.2	100.0	100.0	100.0	100.0	100.0	

GERDAE CEIMATOLOGY RRANCH USAFETAC ATR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURPENCE OF CFILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 27:1133 STATION NAME: MURMANSK USSR										PEP100 MONTH	: Aujt	HOURS	(EST):	Δίί	
CEILING	• • • • • •	• • • • • •	• • • • • • •	• • • • • • •	• • • • • •						• • • • • • •	• • • • • • •	• • • • • • •	• • • • • •	• • • • • • • • • •
14 1 31		G+.						FUNDRED!							
FEET 1 160	ئائ زد•	9 y	⊌E ნე	ناد 4 غ	6€ ¥ 6	5 L 32	G⊆ • 4	SE 20	GE le	*-E	51 10	3 <i>2</i>	61	G£	GF
													5	4	ວ
	•											• • • • • • •	• • • • • • •	• • • • • •	••••••
NO CETE 17.7	19.9	19.1	19.4	19.6	19.7	19.9	19.9	19.9	19.9	10.5	19.9	29.1	20.2	27.2	3 ، ن 2
68 2376JF \$9.3	21.2	21.4	21.7	21.9	22.1	22.3	22+3	22.3	22.3	27.4	22.4	22.5	22.7	22.7	22.8
⊎E 18738 19∗3	21.2	21.4	21.7	21.9	72.1		22.3	22.3	22.3	2.1.4	22.4	22.5	72.7	22.7	22.6
ut 160a0∤ 19.3	21.2	21.4	21.7	21.9	22.1	22.3	22.3	.2.3	22.3	27.4	22.4	22.5	22.1	22.7	22.6
06 147301 17.7	21.2	21.4	21.7	21.5	22.1	22.3	22.3	22.3	2.3	2 4	22.4	22.5	22.1	22.1	22.8
GE 12732 19.3	21.3	51.5	21.0	21.9	25.5	22.3	22.4	22.4	22.4	27.4	22.4	22.5	22.7	22.9	22.0
or 150001 27.0	₹3	31.6	32.0	32.2	32.7	37.9	32.9	32.7	32.9	34.0	75.1	33.2	33.3	53,4	33.5
60 and51 27.9	21.	31.5	32.3	32.2	32.7	32.9	32.9	32.9	12.9	3:•^	33.1	33.2	33.3	33.4	33.5
GE 8130 27.9	11.3	31.4	32.3	32.2	32.7	32.9	32.9	32.9	12.9	3,,,,	33.1	33.2	73.3	33.4	23.5
65 7:00 1 27.9	31.3	31.6	32.3	32.2	12.8	32.9	33.0	33.0	33.0	37.1	33.1	33.2	33.4	37.4	33.5
GE 07001 25.1	51.4	31.7	32 • 1	32.4	36.9	33.1	33.1	3 . 1 ذ	33.1	31.2	33.2	33.3	33.5	33.6	73.6
i5 5007 29.9	32.4	32.6	33.1	33.3	33.9	34.1	34.1	34.1	34.1	34.7	34	34.3	34.5	34.6	34.6
65 45Jgl 29.r	33.1	33.3	33 . +	34.1	34.7	34 . P	34.9	34.9	34.9	3 ' • "	35.0	35.1	35.3	35.3	35.4
6E 41801 35.2	9.0	39.4	40.0	47.2	46.8	-1.0	41.C	41.0	41.0	41.1	91.2	41.3	41.4	41.5	41.6
05 35011 36.3	4 7. 3	40.7	41	41.5	42.2	42.3	42.4	42.4	42.4	47.4	42.5	42.6	42.8	42.8	42.9
65 3mgc 37.7	41.8	42.2	42.7	43.3	43.6	43.8	43.9	43.7	43.9	41.0	44.D	44.1	44.3	44.3	44.4
95 25271 61.1	66.5	57.1	67.8	63.2	69. C	69.1	69.2	69.2	69.2	69.3	69.4	69.5	69.6	64.7	69.8
OE 21234 64.4	73.0	17.5	71.5	71.7	72.5	12.5	72.7	12.7	72.7	7~.3	72.8	73.0	73.1	13.2	73.3
58 1937 65.7	71.6	72.1	72.8	73.2	74.0	74.2	74.3	74.3	74.3	70.4	74.4	74.5	74.7	74.8	74.5
65 ISON 67.6	73.3	13.5	74.4	74.0	75.6	75.8	75.8	75.7	75 . 9	74.7	76.0	76 - 1	76.3	76.3	76.4
υΕ 1. 30† 77•7	a 5 • 8	36.6	87.7	89.4	49.2	89.5	89.5	89.5	99.7	6 ^ . 7	99.8	90.0	93.1	90.Z	90.2
55 1 JJI 79.3	23.5	32.2	93.4	93.4	92.1	92.3	72.3	92.5	92.5	92.6	97.7	92.8	٥3.5	97.0	93.1
5E 9.51 70.8	7 7 . 1	₹7.1	91.4	91.7	93.2	93.4	93.4	93.6	93.6	97.7	93.6	93.9	24.1	94.1	94.2
∪E ? "I b"• "	° 1.0	₹1.2	92.3	93.1	94.5	94.7	94.8	94.9	25.C	95.1	25.1	95.3	25.5	95.5	95.6
765 62.9	01.3	92.5	94 . 1	94.8	96.2	96.4	96.5	96.6	26.7	94.6	96.6	97.3	27.2	97.2	97.3
UE 4031 81.1	9.11	73.1	94.7	95.4	?ۥ9	47.2	97.2	97.4	97.4	97.5	37.6	97.7	97.9	9 a • D	78.C
of 15001 81.1	12.2	13.5	95.2	45.9	57.4	97.7	97.8	97.:	1.86	çe, n	99.1	99.3	≎a.5	98.5	96.6
5E 4301 81.2	25.2	74 . ;	95.7	96.5	78.1	98.3	96.5	98.5	98.7	9 2 0	98.9	99.0	99.2	99.3	99.3
65 700 1 81 42	33.€	94.1	75.5	95.6	98.3	99.5	98,6	¥8.3	98.5	9.	99.1	99.3	99.5	99.5	99.6
BE 1801 41.2	35.6	94.1	75.8	46.6	CA. 3	98.5	99.7	98.9	99.7	92.1	23.2	99.3	94.5	99.6	99.7
66 153 81.2	ع ۽ و	74.1	95.1	95.6	98.3	98.5	93.7	78.7	99.0	90.1	99.2	99.3	00.5	99.6	100.0
GE 21 8142	02.6	94.1	95.1	96.6	98.3	98.5	98.7	16.9	99.5	97.1	99.2	99.3	99.5	99.6	100.0

GLODAL CLIMATOLOGY ARAMCH USAFFTAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CFILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

ATP WEATHER SERVICE/MAC		
STATION NUMBER: 221135 STATION NAME:	MUHM AN SK. USSR	PETIOD OF RECORD: 77-85

\$ 1 A	I TÜN M	OLMER:	2.1133	21017	ON SAME	. 4048	ANSK US	2 K					: 58p	HOURS	-85 (LST): '	apan-e2	CC
	1.6	• • • • •	• • • • • •	• • • • • •	• • • • • •			v15181L					• • • • • • •	• • • • • • •	• • • • • •	• • • • • •	• • • • • • • • •
I		61	GE.	GF	GF	GE	65	GE	GC.	GE	GE GE	1.6	r #	GΕ	GE	64.	GF
Fέ		160	9.5	:	66	9 t	4 (32	24	20	16	1.7	16	, , , , , , , , , , , , , , , , , , ,	5	91.	0,
					******										-		
						_											
* O ·	LETE	19.2	22.4	22.4	23.1	23.4	23∙ 8	23.8	23.8	23.8	23.8	2°'•°	23.8	23.8	23.8	23.8	23.8
i, F	Locust	20.3	23.4	27.4	24.1	24.5	24. 3	24.9	24.8	24.P	24.8	24.4	24.8	24.2	24.8	24.B	24.8
GE	e 1001	20.3	23,4	3.4	24.1	24.5	24.8	24.8	24.5	24.9	24.8	24.0	74.6	24 . 8	24 . 0	24.A	24.8
13 F	100 131	20.3	23.4	23.4	24 + 1	24.5	24.8	24 . F	24.8	24.8	24.8	24.5	24.8	24.0	24.8	~4 . R	24.8
6.5	40:01	2 . 3	23.4	23.4	24 - 1	24.5	24.8	24.8	24.5	24 . R	24 • 8	24.0	24.8	24.8	24.8	24.8	24.8
u F	125071	20.3	23.4	23.4	24.1	24.5	24.8	24.8	24.8	24.A	24 • E	€ 4 • E	24+8	24 • 9	24.8	24.8	24.6
6.1	rut väl	. 0 4	71, 3	35.7	36.4	36.7	37.1	37.1	37.4	37.4	77.4	37.4	-7.4	37.4	37.4	37.4	37.4
GE	91 UE		75.3	35.7	?6.4	36.7	37.1	37.1	37.4	37.4	77.4	37.4	37.4	37.4	37.4	37.4	37.4
G.E	F1 L01		35.3	35.7	36.4	36.7	37.1	37.1	37.4	37.4	77.4	37.4	77.4	37.4	77.4	37.4	37.4
GF	71 601		35.3	35.7	36.4	35.7	37.1	37.1	37.4	37.4	37.4	37.0	37.4	37.4	37.4	37.4	77.4
u f	C 601		36.4	36.7	37.4	37.8	36.1	38.1	38.5	38.5	31.4	35.5	39.5	38.5	₹8.5	3 A • 5	38.5
01		3 .4) ti • 4	36 • 1	37.4	31.6	20.1	30.1	38.3	20.5	.6 • 3	3, • 2	37.5	38.3	.0.5	34.5	26.5
GF	51 001	37.8	30.7	37.1	37 . H	38.1	38 • 5	38.5	38 - 8	38.8	78.8	30.8	35.8	38.8	73.5	36.6	36.8
G E	45001	31.ª	37.9	38.1	36.6	39.2	34.5	39.5	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	19.9
G.F.	47631	38.1	44.4	44.A	45.5	45.8	46.2	46.2	46.5	46.5	46.5	44.5	46.5	46.5	46.5	44.5	46.5
ijΕ.	31 601	41.3	47.6	47.9	48.6	49.)	49.3	49.3	49.7	49.7	49.7	49.7	47.7	49.7	49.7	49.7	49.7
GΕ	3,000	44.P	5.1.1	51.4	52 + 1	52.4	52•∂	52.8	53.1	53.1	53.1	53.1	53.1	53.1	5.3 • 1	53.1	53.1
٦c	arubl	63.3	72.1	73.1	73.8	74.1	74.5	74.8	75.2	15.2	75.5	7= .5	75.5	75.5	75.5	75.5	75.5
G.F	20001		76.2	16.6	77.3	77.6	78. J	70.3	79.7	78.7	79.C	70.0	79.0	79 · G	79.3	74.0	79.5
(F	1901		77.7	17.6	7H . 3	79.7	79. J	79.4	79.7	73.7	PD.1	80.1	80.1	HO . 1	FJ.1	80.1	FD. 1
u F	15571		79.4	79.7	93.4	63.8	81.1	81.5	81.8	81.9	92.2	87.2	82.2	82.2	P2.2	82.2	82.2
5.5	16.31		44.1	18.5	89.5	87.9	90.9	91.3	91.6	91.6	92.0	97.9	92.0	92.0	92.0	92.0	92.0
			-														
ti !	10001		99.5	89.9	90.9	91.3	92.3	92.7	93.0	93.0	93.4	9 1 4	93.4	93.4	93.4	93.4	93.4
(5		77.3	79	91.3	92.3	92.7	93.7	94.1	94.4	94.4	94.9	94.4	94.8	94.4	94.8	94.8	94.6
٠, ﺩ		70.3	92.3	92.3	93.4	97.7	95.1	95.5	95.8	95.P	96.2	91.2	96.2	46.2	96.2	96.2	96.2
46	71.01	19.7	93. 7	73.4	94.4	94.8	96.2	96.5	96.9	46.9	97.2	97.7	21.2	97.C	97.2	97.2	97.2
GE.	65.04	78.7	₹4.1	14.4	95.5	¥ - • ð	97.2	97.6	97.9	97.9	98.6	90.6	?∄•6	98.6	98.6	98.6	98.6
6.5	511	72.0	34.4	94.5	95.6	96.3	97.6	97.9	98.3	98.3	99.0	99.0	94.0	99.7	29.3	99.0	99.0
4, 6		79.0	54.4	74.3	96.2	96.5	37.9	98.3	98.6	99.6	29.3) C 3	22.3	99.3	99.3	99.3	99.3
üΕ		79.E	74.4	74.5	96.2	25.5	97.9	99.3	98.6	98.6	99.3	95.1	07.3	79.3	99.3	79.3	99.3
ÜΕ		72.0	04.4	14.9	96.2	76.5	97.9	99.3	98.6	98.6	99.3	9 = 3	24.3	99.3	99.3	90.3	95.3
υE		77.0	44.4	94.8	96.2	95.5	97.9	99.3	78.6	98.6	79.3	90.3	99.3	99.3	99.7	99.7	99.7
	/,			• .					0	,	. , • 5	. • .		· · • ·		•	
GΓ	01	73.0	94.4	24.8	96.2	96.5	97.9	98.3	98.6	≯8.6	99.3	99.3	99.3	99.3	99.7	99.7	100.0
	.		• • • • • •														

GEOGRE CLIMATOLOGY BRANCH USAFETAC AIR WEATHER SERVICEMMAG

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM FOURLY OBSERVATIONS

STATION NUMBER: 201130 STATION NAME: MURMANSK USSR

PECIOD OF RECORD: 77-86 HE VISIBILITY IN FLYDREDS OF METERS GE GE GE GE GE MONTH: SEP HOURS (LST): 0300-0500 CRILING IN 1 GT FEET 1 167 r.i. GE 4 5 υť 5 E 32 GE GE 24 22 GE 0 40 ٠, 1 3 16 63 Ü NO CEIL | 13.8 22.9 65 203031 18.8 65 180031 18.8 65 160001 19.8 27.9
27.3
27.9 22.9 22.9 22.9 21.2 21.2 22.5 22.9 21.2 21.5 22.5 22.9 22.5 GE 145001 19.8 SE 120001 19.8 21.4 22.9 22.9 27.9 22.9 22.9 22.9 22.9 22.5 22.3 2.9 22.9 22.9 22.9 22.9 22.4 22.9 22.9 22.9 5E 1000| 2000 6E 9000| 2800 6E 8000| 2000 0E 7000| 2800 75.5 75.5 31.5 31.5 35.5 35.5 35.5 35.5 35.5 :5.5 35.5 32.4 32.4 35.5 35.5 35.5 35.5 35.2 35.5 35.5 35.5 33.1 34.1 34.5 35.5 35.5 35.5 35.5 35.5 35.2 35.5 33.1 35.5 34 · 1 34 · 1 34.5 32.4 34.5 35.2 35.5 35.5 35.5 35.5 35.5 35.5 35.5 35.5 36.5 35.5 32.4 34.1 34.5 35.2 35.5 35.5 35.5 35 . 5 35.5 33.1 60001 29.0 35.5 35.5 35.5 35.5 35.5 5000| 29.4 4500| 30.4 4001| 37.5 33.8 34.8 36.9 36.9 36.9 37.9 ωF. 34.5 35.5 35.9 36.5 36.9 36.9 36.9 36.9 36.9 36.9 36.9 35.5 36.4 45.1 37.5 45.7 37.9 37.9 37.9 37.9 37.9 37.9 37.9 is F 30.5 42.7 43.5 44.4 46.1 44.1 46.1 46.1 46.1 46.1 35 121 32 6 4 2 . 1 44.7 45.4 46.4 47.1 47.8 48.1 48.1 48.1 48.1 48.1 48.1 48.1 48.1 48.1 ° J • 2 30001 41.3 53.2 46.5 47.4 49.1 49.8 57.2 50.2 50.2 50.2 50.2 48.5 20001 54.4 69.6 66.€ 67.2 68.9 70.3 70.6 70.6 71.0 71.0 71.0 71.7 71.3 71.0 71.6 20001 60.1 19001 61.1 68.6 59.6 69.6 7°.5 72.7 73.7 73.0 74.1 73.4 73.4 73.4 73.4 ζr 71.3 72. 1 73.0 74.1 73.4 73.4 73.4 (, £ 72.4 73. . 74.4 74.4 74.4 74.4 1500| 61.8 7.).6 G.F 53.€ 65.3 8.4 89.4 89.8 A 2. A 90.1 90.1 90.4 90.4 93.4 90.4 97.5 1 (331 79.1 85.7 93.4 92.5 92.5 G E £7.4 82.4 91.5 91.8 91.8 42.2 92.2 92.5 92.5 92.5 94.2 95.4 97.3 9321 75.4 97.5 57.4 92.2 93.2 93.5 93.7 93.5 94.2 94.2 94.2 69.1 91.4 94.2 94.2 4021 75.1 7,01 76.8 GE P8.4 90.1 92.5 93.5 94.5 94.9 94.9 45.2 95.2 95.6 95.6 ¢5.6 95.6 95.6 A 9.4 96.2 97.3 97.3 97.3 41.1 77.9 94.9 95.9 96.2 96.6 76.9 97.3 97.3 ŧΓ 6511 76.8 96.6 96.9 97.6 f. F 5021 76.8 £9.8 95.6 97.3 97.3 99.3 4501 76.P 95.6 95.6 96.6 96.9 78.C 98.3 99.3 98.6 99.3 78.6 98.3 98.6 GE 49.5 91.5 94.5 97.3 97.3 97.6 98.3 98.3 98.3 300 76.9 2.7 76.8 99.6 91.6 G E 94.5 97.6 ¢8.6 98.6 91.5 98.7 98.6 98.0 45.6 99.0 o ľ 69.2 95.6 97.6 98.3 95.6 99.3 99.0 99.0 95.6 90.6 99.0 99.0 36.9 97.6 97.6 98. 98.3 98.6 99.0 95.6 65 S1 76.8 49.8 51.5 94.5 97.6 98.3 99.6 96.9 99.3 99.0 100.0 97.6 99.0 99.0 98.6

CLOBAL CLIMATOLOGY PRANCH USAFETAC AIR MEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VEHSUS VISIBILITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 221133 STATION NAME: MURMANSK USSR

STA	TICN N	UMBER:	221130	STATIO	ON NAME:	HURM	MISK USS	R				FE"IOD	OF RECO	PD: 77	-8 r		
												MONTH	: SEP	POURS	(LST): (8g-006	en
		• • • • •		• • • • • •									• • • • • • •		• • • • • • •		• • • • • • • • • • •
	L1146									HUNDREDS							
1		6.1	G۲	(; f	GF	GE	GΞ	GE	65	GE	GE	5 E	GE	GE	GE	GE	GE
FΕ		•	95	50	6.3	4.6	4 0	32	24	23	16	10	10	8	5	4	0
	• • • • • •	• • • • • •	• • • • • • • •	• • • • • •	• • • • • • • •	• • • • • •	• • • • • •	• • • • • •		• • • • • • •	• • • • • •	• • • • • • •	• • • • • • •	•••••	• • • • • • •		• • • • • • • • • •
N 0	C L I L I	9.3	11.3	11.4	12.1	12.1	12.1	12.1	12.1	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12-5
εE	20huel	10.3	12.1	12.5	13.2	13.2	13.2	13.2	13,2	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
	Techol		12.1	12.5	13.2	13.2	13.2	13.2	13.2	13.5	13.5	1 7 . C.	13.5	13.5	13.5	13.5	13.5
	16: api		12.1	12.5	13.2	13.2	13.2	13.2	13.2	13.5	13.5	17.5	13.5	13.5	13.5	13.5	13.5
6 E	100001	10.3	12.1	17.5	13.2	13.2	13.2	13.2	13.2	13.5	13.5	17.5	13.5	13.5	13.5	13.5	13.5
6 E	150021	10.3	12.1	12.5	13.2	13.2	13.2	13.2	13.2	13.5	13.5	1'.5	13.5	13.5	13.5	13.5	13.5
6.5	100001	21.0	25.6	26.1	26.7	26.7	27.8	27.4	28.5	29.5	29.5	27.5	79.5	29.5	29.5	29.5	29.
35	9_001		25.6	26.7	26 • 7	26.7	27.0	27.4	28.5	29.5	29.5	27.5	29.5	29.5	29.5	29.5	29.5
υE	30301		25.6	26.3	26.7	26.7	27.0	27.4	28.5	29.5	29.5	22.5	29.5	29.5	29.5	29.5	29.5
	70001		25.6	26.0	26.7	25.7	27.G	27.4	28.5	29.5	29.5	20.5	29.5	27.5	29.5	29.5	29.5
ŋΕ	60001		25.6	26	26.7	26.7	27.U	27.4	28.5	29.5	29.5	23.5	29.5	29.5	29.5	29.5	29.5
ų".	50001	21.7	26.3	26.7	27.8	27.8	28.1	28.5	29.5	30.6	30.6	37.5	76.6	30.6	30.5	37.6	30.6
GE	45.331		27.4	27.5	28 • 8	28.9	24.2	29.5	33.6	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7
úΕ	41 001		33.8	34.2	35.2	35 - 2	35.6	35.9	37.0	38.1	38 . 1	39.1	38 - 1	38 • 1	38.1	3 P • 1	38.1
GE	Jruol		35.9	36.3	37.4	37.4	37.7	38.1	39.1	40.2	40.2	47.2	40.2	40.2	43.2	40.2	46.2
6 E	30001		37.7	38.1	39 - 1	39.1	39.5	39.9	43.9	42.0	42.0	47.0	42.C	42.0	42.3	42.0	42.0
65	21981	48.8	54.4	58.7	63.1	67.1	60.9	61.2	62.3	63.!	63.3	67.7	63.3	63.3	63.3	63.3	63.3
GE	2 : 301		51.2	61.6	63.3	63.0	63.7	64.1	65.1	66 • 2	66.2	66.2	66.2	66.2	66.2	66.2	66.2
GΕ	19921		52.6	63.0	64.4	64.4	65.1	65.5	66.5	07.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6
45	15001		54.8	55.1	66.5	66.5	67.3	67.6	68.7	υ 3 . Β	69.8	50 · H	6.9.8	69.8	69.8	69.8	69.8
u.S	17531	65.8	79.4	30.4	82.3	83.3	65.1	85.4	86.5	o 7 • 5	87.5	87.5	37.5	87.5	A7.5	87.5	R7.5
üΕ	17301	67.3	91.9	82.9	A5.4	85.8	97.5	87.9	89.0	* 1 * 3	90.3	9~.0	90.0	93.3	90.0	93.0	90.0
65		69.7	d 3 . 3	54.3	86.8	87.3	99.0	89.3	90.4	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
G.E.		64.5	13.6	34.7	87.2	87.5	99.3	89.7	90.7	11.0	91.8	91.9	91.8	91.8	91.8	91.8	91.8
u E		69.4	45.4	65.5	99.3	90.0	91.8	92.5	93.6	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
٦ŗ		09.4	-5.4	35.5	89.3	90.u	91.8	92.5	93.6	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
55	5	67.4	05.4	86.5	89.3	90.4	92.5	93.2	94.3	95.4	95.4	q = . u	95.4	95.4	95.4	95.4	95.4
ű.E		69.4	35.4	85.5	89.3	90.4	92.5	93.2	94.3	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
üέ		67.4	25.4	36.5	89.3	97.4	92.5	93.2	94.3	15.4	75.4	9 . 4	95.4	95.4	95.4	95.4	95.4
6 E		67.4	35.4	d 6 • c	89.7	92.7	92.3	93.6	94.7	95.7	95.7	95.7	95.7	96.1	96.4	96.4	96.4
⊎ E		64.4	5.4	36.8	99.7	99.7	92.9	93.6	94.7	95.7	95.7	95.7	95.7	96.1	96.8	97.9	98.9
υF	~ 1	67.4	45.4	35.8	87.7	91.7	92.9	93.6	94.7	95.7	95.7	95.7	95.7	96.1	96.6	07.0	120.0
		-			07.1	-	_				4341	4/	73.1		****		

GLOBAL CLIMATOLOGY BRANCH USAFETAC AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 221130 STATION NAME: MURMANSK USSR PERIOD OF RECORD: 77-85 MONTH: SEP HOURS (LST): 0900-1100 CEILING IN 1 GT FEET 1 160 GE GE GΕ GE 90 40 60 48 9 C 5 4 NO CEIL | 17.4 11.5 13.2 13.5 13.9 12.2 13.2 13.2 13.2 13.9 14.2 12.2 12.0 6E 230601 11.8 12.9 14.9 13.2 13.9 15.3 15.3 16.0 15.0 15.0 16.3 16.3 16.3 15.3 15.6 15.3 16.0 16.0 16.0 GE 187001 11.8 13.2 13.9 13.9 14.9 15.3 15.3 15.3 15.3 15.6 16.0 16.0 16.3 16.3 16.3 UE 10003 11.8 LE 14703 11.8 13.2 13.7 16.0 13.9 14.9 15.3 15.3 15.3 15.3 15.6 15.0 15.3 16.3 16.3 14.9 13.9 15.3 15.3 15.3 15.3 15.€ 16.0 16.3 16.3 16.3 29.2 29.2 29.2 Gr 13003| 21.2 23.6 24.3 24.3 25.7 27.4 27.4 27.8 28.5 28.8 29.5 29.9 29.9 29.9 9700) 21.2 8 00| 21.2 7 00| 21.2 6100| 21.2 29.2 29.2 29.2 29.2 ωE 23.6 24.3 24.3 25.7 27.4 27.4 27.4 27.8 27.8 28.5 28.5 28.8 29.5 29.5 29.9 29.9 29.9 29.9 24.3 25 - 7 27.4 29.9 29.9 28.5 GF 73.6 24.3 24.3 24.3 27.4 28.5 29.2 29.5 29.9 29.9 29.9 23.6 6 E 24.3 28.8 5001 21.5 24.7 28.1 28.1 28.5 29.2 29.5 29.9 30.2 33.6 37.6 30.6 4500| 27.6 4500| 28.5 3500| 30.2 GΕ 25.0 71.6 25.7 25.7 27.4 29.2 29.2 29.5 30.2 30.6 3n.o 3a.s 33.9 31.6 32.6 35.4 19.2 U.E 32.6 35.1 36.8 36.8 37.2 37.8 38.2 38.5 38.7 39.2 39.2 34+L 39.6 39.6 41.7 40.6 41.0 41.3 41.3 39.9 ψĒ 30001 31.6 36.8 37.2 37.5 41.3 41.7 42.4 42.7 43.1 43.4 43.8 43.6 67.4 25001 44.4 c 0. 7 53.8 60.4 12 5 52.4 56.6 58.3 58.3 59.7 59.4 60.1 67.9 £1.1 61.1 61.1 53.5 61.5 CE 2 301 47.2 55.6 59.7 63.5 63.9 56.9 61.5 61.8 62.5 64.2 61.5 53.2 64.2 64.2 18 101 48.6 15001 51.4 10001 63.5 56.9 56.3 61.1 62.8 63.5 64.2 64.9 65.3 65.6 66.0 64.0 66.0 58.3 67.4 83.3 68.1 L F 6" • 4 61.0 65.7 66.7 68 . E 69.1 69.1 69-4 69.8 69.8 69.8 79.5 74.7 75.3 77.1 11001 64.6 GF 77.1 78.5 81.3 84.4 84.4 85.4 87.2 97.5 87.8 86.2 88.2 88.2 9031 65.3 #831 66.7 78.5 87.6 82.3 6º.9 GF 79.7 81.9 62.6 64.7 65.8 P7.8 85.8 87.8 86.8 87.8 P8.5 89.9 91.0 89.2 91.3 99.6 89.6 91.7 89.6 91.7 89.9 78.8 79.2 £7.2 6.5 7001 67.7 83.7 90.6 92.C SC | 67.7 94.8 LŁ 22.6 95.1 95.5 91.0 91.0 12.4 93.4 95.5 95.5 ĿΕ 1001 67.7 79. . 82.6 93.8 95.8 95.8 96.5 84.7 87.5 91.5 91.3 92.7 95.5 95.2 96.5 96.5 79.5 79.9 83.3 63.7 63.7 4401 67.7 6 E 84.7 92.€ 92.0 96.2 94.5 96.5 96.9 97.2 97.2 97.2 88.2 93.4 94.4 3001 67.7 89.5 88.5 92.4 92.4 93.8 97.2 97.9 υE 85.1 95.1 96.9 97.2 97.6 97.9 97.9 85.1 97.2 98.3 95.1 96.9 99.0 99.0 99.0 1001 67.7 79.9 o 3 • 7 85.7 92.4 27.2 99.3 99.7 100.0 1 67.7 93.8 6 E 79.5 8 7 . 7 72.4 92.4 95.1 96.9 97.2 97.2 98.3 99.3 99.7 100.0

CEORAL CLIMATOLOGY FRANCH Usafliac

PERCENTAGE FREQUENCY OF OCCURPENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

AIR HEATHER SERVICE/MAC

5 1 4	110	ON N	L'MPEP:	271136	51211	ON NAME:	HURK	ANSK US	S R					OF REC			1200-14	00
			• • • • •	• • • • • • • •	•••••	• • • • • • •	• • • • • •				HUNDRED							••••••
_	V		C T	GŁ	GE	LΕ	GE	GE	GE	GE	GE	GE	er.	6(GE	GE	GŁ	6E
	ĒΤ	i	160	9.	نه	6.1	45	ن به	32	24	20	16	1.2	10	8	5	4	ັ້ນ
		.																
															• • • • •			
₩0	CEI	IL I	14.0	14.0	14.4	14.3	14.5	14.8	14.8	14.8	14.0	14.6	Ĭ a • b	14.6	14.9	14.8	14.8	14.8
_	3		10.0	17.3	1	17.3								14 3		• • •		
			14.8	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	14.2	16.2	16.2	16.2	16.2	16.2
			14.5	16.2	16.	16.2	16 - 2	16.2	16.2	16.2	16.2	16.2	15 • 2	16.2	16.2	16.2	16.2	16.2
			14.9	16.6	16.2	16 • 2	16.2	16.2	16.2	16.2	16.2	10.2	16.2	15.2	16.2	16.2	16.2	16.2
			14.6	10.2	16.2	16.2	16.2	16 • 2	16.2	16.2	16.2	16.2	16+2	16.2	16.2	16.2	16.2	16.2
. E.	1.	9 . [14.5	10.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	14.2	16.2	16.2	16.2	16.2	16.2
iΕ	107	1001	26.6	29.8	29.5	20.9	20.4	30.6	37.6	30.6	30.6	30 • 6	35.6	30.6	30.6	30.6	30.6	30.6
, ε	9:	uni.	26.6	28.8	29.5	20.9	29.9	30.6	30.6	30.6	33.6	10.6	30.6	10.6	30.6	30.6	30.6	30.6
ιĒ			26.6	28.6	20.5	29.9	29.9	3G • 6	37.6	30.6	32.6	30.6	37.5	30.6	33.6	30.6	30.6	30.6
ιĒ			24.6	23.8	29.5	29.9	29.4	30.6	37.6	30.6	30.6	30.6	30.6	33.6	37.6	30.6	30.6	30.6
			25.6	28.8	29.5	29.9	29.9	3C.6	437.6	33.6	30.6	30.6	37.6	33.6	30.6	30.6	30.€	30.6
															-	-		
·Ε	5.5	1001	27.7	29.9	30.6	31.0	31.5	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7
٤.	4.	231	29.4	30.6	31.4	31.7	31.7	32.5	32.5	32.5	32.5	32.5	32.5	12.5	32.5	32.5	32.5	32.5
Æ	4.7	1001	31.7	33.9	35 + 4	35.0	36.2	76.9	36 • 9	36.9	36.9	36.9	35.9	35.9	36.9	76.9	36.9	36.9
. Ę	3 5	USI	33.6	75.8	37.3	37.6	39.0	38.7	38.7	38.7	38.7	39.7	3º • 7	39.7	38.7	38.7	3A.7	38.7
. r	21	001	34.7	37.€	39.4	39.5	39.9	40.6	40.6	40.6	40.6	40 . t	4 . 6	43.5	40.6	40.6	47.6	46.6
, F	2.5		54.6	59.8	62.0	62.7	63.1	63.8	63.8									
			57.0							64.2	64.2	54.2	64.2	64.2	64.2	64.2	64.2	64.2
			59.5	53.0	66.1 67.9	66.3	67.2	67.9	67.9	68.3	69.3	68.3	65.3	69.3	68.3	68.3	68.3	68.3
			64.2	65.7		66.6	69.3	59.7	69.7	73.1	70.1	70 • 1	70.1	73.1	70.1	73.1	70.1	70.1
			75.6	71.6	73.9	74.5	74.9	75.6	75.6	76.3	76.0	76 • 0	76.7	76.0	76 • C	76.0	76.0	76.0
, r.	¥ «.	. La ti]	(2.5	86.C	88.6	99.7	97.0	92.3	92.3	93.0	93.7	23.0	91.0	93.4	93.4	93.4	93.4	93.4
3	1 "	tcu:	75.6	96.3	89.3	90.4	90.8	93.0	93.0	93.7	93.7	93.7	97.7	C4 . 1	94.1	94.1	94.1	94.1
F.	17	100	76.4	47.5	77.4	91.5	91.9	94.1	94.1	94.8	94.9	94.5	94.8	95.2	95.2	95.2	95.2	95.2
, F	c	301	76.4	98.0	91.5	92.0	93. j	95.2	95.2	95.9	95.9	95.9	95.9	96.3	96.3	96.3	96.3	96.3
5 E	7	1531	71: A	94.3	92.3	93.7	94.5	96.7	96.7	97.4	97.8	97.8	97.8	98.2	98.2	98.2	99.2	98.2
ıΕ	- (331	76.8	27.3	92.6	94.5	95.2	97.4	97.4	98.2	98.5	98.5	90.5	98.9	98.9	98.9	99.9	98.9
r		101	76.P	5.0. 2		D# F	0.5	0.7 +			00.5			5 11 5		•••		
E				49.3	92.5	94.5	95.2	97.4	97.4	98.2	98.5	98.5	Ç 7 . 5	56.3	98.9	98.9	98.9	98.9
-			76.8	57.7	93.	94 - 3	95.6	77.8	97.8	98.5	98.9	98.4	90.9	79.3	99.3	99.3	99.3	99.3
3.5			76.P	69.7	73.	74 . 8	95.6	97.8	97.A	98.5	98.9	98.9	60.9	99.3	99.3	99.3	99.3	99.3
, F.			76.6	89.7	93.3	94 . 8	95.6	97.8	97.8	98.5	98.9	9.9	90.9	99.3	99.3	99.6	99.6	99.6
Œ		GC I	75 • R	49.7	97.0	94.8	95.6	97.8	97.9	98.5	98.9	98.9	98.9	99.3	47.3	100.0	100.0	100.0
·Ε		:1	76.8	99.7	93.0	94.8	95.6	97.8	97.8	98.5	98.9	98.9	90.9	79.3	99.3	100.0	100.0	100.0
												-						

GLOHAL CLIMATOLOGY GRANCH USAFETAC AIR WLATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCUPRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

STATION	NUMBER:	221130	STATI	ON NAME:	нг ин	ANSK US	SR				PETTOD MONTH	OF REC			1500-17	CO
CEILING	•••••	• • • • • • •	• • • • • •	• • • • • • • •	• • • • • •				HUNDREDS			• • • • • • •	• • • • • •	• • • • • • •	• • • • • • •	• • • • • • • • • • • • • • • • • • • •
14	1 st	G4)	GS	ŭΕ	GΕ	GE	GE	GF.	ં દ	GE	۲.€	G {	GE	3.0	ક ક	33
FEET	167	9.5	# 2	63	4 3	4 ()	32	? 4	20	1 €	12	10	8	5	4	0
					• • • • •			• • • • • • •							• • • • • • •	
NO CEIL	11.7	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.3	12.0	17.4	12.4	12 • 4	12.4	12.4	12.4
6E 20766		14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.9	14.8	14.9	14.8	14.8	14.8
5E 1875		14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.8	14.8	14.8	14.8	14.8	14.6
UE 16000		14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.8	14.8	14.8	14.8	14.8	14.8
6E 14765		. 4 . 4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.9	14.8	14.5	14.8	14.8	14.8
65 12000		14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.8	14.8	14.9	14.8	14.8	14.8
GE 10001		26.1	26.8	26 . 3	25.5	26.6	26.8	26.8	7 • 1	27.1	27.5	21.5	27.5	27.5	27.5	27.5
	25.8	20.1	26.3	26.6	26.8	26.6	26.8	26 • 8	27.1	27.1	27.5	27.5	27.5	27.5	27.5	27.5
	25.8	26.1	26.8	26.5	26.8	26.8	26.8	26.8	27.1	27.1	27.5	27.5	27.5	27.5	27.5	27.5
	25.8	26.1	26.9	26.8	26.5	26.8	25.8	26.8	27.1	27.1	27.5	27.5	27.5	27.5	27.5	27.5
	1 25.8	26.1	26.5	26.8	26.9	26.8	26.9	26 - 8	27.1	27.1	27.5	27.5	27.5	27.5	27.5	27.5
0 0.	,, 23.0	20.1	2000	20.0	2	20.0	60.0	20.0	2/11		2 1 .)	21.5	21.7	7 1 4 3	2113	27.5
SE 500€	1 26.P	27.1	27.8	27.8	27.3	27.8	27.8	27.8	28 • 2	28.2	20.5	28.5	28.5	28.5	28.5	28.5
GE 44 00	28.9	29.2	29.9	29.9	29.9	29.9	29.9	29.9	30.2	30.2	37.5	30.6	37.6	19.6	30.6	3 C • 6
	1 36.0	37.8	38.8	19.2	37.2	39.2	39.2	39.2	39.5	39.5	30.9	39.9	39.9	79.9	39.9	39.9
	38.5	79.5	47.5	40.9	47.9	46.9	47.9	40.9	41.2	41.2	41.5	41.6	41.6	41.6	41.6	41.6
GE 3060	1 47.5	41.6	42.6	43.0	43.3	43.0	43.0	4 3 . C	43.3	43.3	47.5	43.6	43.6	43.6	43.6	43.6
												• • •				
6E 2500	1 62.2	65.6	67.0	67.4	67.4	67.7	67.7	68.3	68.4	68.4	62.7	69.1	69.1	69.1	69.1	69.1
GE 20 Ur	1 67.3	73.4	71.5	12.2	72.2	72.5	72.5	72.9	73.2	73.2	77.5	73.9	73.9	73.9	77.9	73.9
GF 1900	69.4	72.9	74.2	74.5	74.6	74.9	74.9	75.3	15.6	75.6	75.9	76.3	76.3	76.3	76.3	76.3
UE 15 15	11 72.9	76.6	79.0	76.4	79.4	7t.7	78.7	79.0	79.4	79.4	79.7	40.1	80.1	20.1	80.1	8 C • 1
Up 1300	1 62.5	ر. و و د	91.4	92.1	92.1	92.8	92.8	93.5	93.8	93.6	94.2	24.6	94.9	95.2	95.2	95.2
	1 E 3 • F	21.4	92.3	93.8	93.9	94.5	94.5	95.2	95.5	95.5	9 6 . 9	36.6	96.6	96.9	96.9	96.9
	1 83.8	9 L. 8	97.05	94.5	94.5	95.2	95.2	95.9	76.2	66.5	94.6	97.3	97.3	97.6	97.6	97.6
	1 63.8	9 1 • B	93.5	94.5	94.5	95+2	95.2	95.9	96.2	96.2	96.6	97.3	97.3	97.6	97.6	97.6
	8.58	92.1	13.8	94.8	94.8	95.5	95.5	95.2	96.6	26.6	35.3	97.6	97.6	97.9	97.9	97.9
9E 600	1 53.8	92.1	93.8	94.8	94.9	95.5	95.5	96.2	46.6	96.6	36.9	97.6	97.6	97.9	97.9	97.9
	83.8	72.4	94.2	95 • 2	95.2	95.9	95.9	96.6	97.3	77.3	97.6	98.3	98.3	98.6	98.6	98.0
	83.8	92.4	94.2	95 • 4	95.2	;5.9	95.9	96.6	97.3	97.3	97.6	98.3	98.3	9.89	98.6	98.6
	1 63.8	92.4	94.2	95.2	95.2	95.9	95.9	96+6	97.3	27.3	97.6	98.3	98.3	98.6	98.6	98.6
	1 84.2	92.8	94.3	95.9	95.4	°6•6	96 • 5	97.3	97.9	97.9	90.3	99.0	99.3	99.3	99.3	99.3
GE 103	34.2	3 2 · I	95.2	96 • 2	96.2	96.9	96.9	97.6	98.3	98.6	60.3	9.7	99.7	100.0	100.0	100.0
υE.	1 84.2	03.1	95.2	96.2	96.2	36.9	96.9	97.6	98.3	98.6	99.0	99.7	20.7	120.0	100.0	100.0
	•		_		40.6	,0.7	70 17	71.0	70.3	70.0	7 1 a J	7741	77.1	1000		

GLOBAL CLIMATOLOGY SRANCH USAFETAC AIR "FATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURPENCE OF CFILING VIRSUS VISIBILITY FROM HOURLY OBSERVATIONS

			201436									MONTH	OF REC	HOURS	(LS1):		00
	L I'i ö		• • • • • •		• • • • • • •					PUNDREDS					• • • • • • •		
I		61	GE	ΘĒ	GE	GΕ	65	GE.	GE	GE.	GE	GE	GE	GE	GE	GE	GE
FÉ			9 3	ag.	6	48	46	3.2	24	้ 2 ว	16	12	10	9	5	4	C
			• • • • • •				-		• • • • • • •						-		
N O	CEIL I	17.0	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3
ÞΕ	200011	19.5	19.9	19.9	17.9	19.9	19.9	19.9	19.9	19.9	19.9	13.3	19.9	19.9	19.9	19.9	19.9
65	100001	19.5	19.9	19.9	19.9	19.9	14.9	19.9	19.9	19.9	19.9	10.9	19.9	19.9	19.9	19.9	19.9
ĿΕ	160001	19.5	17.5	19.9	17.9	19.9	19.9	19.9	19.9	19.9	19.9	19.7	19.9	19.9	19.9	19.9	15.9
ù€	140301	17.5	19.9	19.9	19.9	19.7	19.9	19.9	19.9	19.9	19.9	17.3	19.9	19.9	19.9	19.9	19.9
GF.	120001	19.5	19.9	19.9	19.9	19.7	19.9	19.9	19.5	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9
őΕ	Lucion	32.1	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.7	32.9	32.9	32.9
65	97011	32.1	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32 . 9	32.9	32.9	32.9	32.9
υE	10008	32.1	32.9	32.7	32.9	32.9	32.9	32.9	32.9	32.9	32.9	37.9	32.9	32.9	32.9	32.9	32.9
6.0	70001	32.1	32.9	32.9	32.9	37.9	32.9	32.9	32.9	32.9	72.9	37.7	32.9	32.9	32.9	32.9	32.9
GE	60001	32.5	23.2	33.2	33.2	33.2	33.2	33.2	33.2	53.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2
SΞ	5"001	37.6	34.3	54.3	34 . 3	34.3	34.3	34.3	34.3	34.3	34.3	34.3	34.3	34.3	34.3	34.3	34.3
6.5	45001	34.3	35 e.t.	35.5	35 • 3	35.0	35.0	35.0	35.C	35.0	35 • C	30.0	35.0	35.0	75 · G	35.0	35.G
5 E	40001	39.7	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5
üξ	35 30 1	41.2	43.0	43.0	43.2	43.0	43.0	43.0	43.C	43.7	43.0	47.7	43.0	43.0	43.0	43.0	43.0
Ŀξ	30031		45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1
GΞ	25.131	66.1	71.1	71.1	71 - 1	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5
6.5	20001	69.7	74.7	74.7	74.7	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75 - 1	75.1	75.1	75.1
55	โรงอโ		77.3	77.3	77 - 3	77.6	77.6	77.5	77.6	77.6	77.6	77.5	77.6	77.6	77.6	77.6	77.6
65	15001	72.2	79.3	78.3	78.3	79.7	78 - 7	78.7	79.7	78.7	78.7	72.7	79.7	78.7	78.7	78.7	78.7
6 E	12021	66.3	93.1	93.5	93.5	94.2	94.9	94.9	94.9	95.3	25.3	95.3	75.3	95.3	95.3	95.3	95.3
6.6	10001	86.3	93.5	93.9	93.9	94.6	95.3	95.3	95.3	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
٦	gua i	86.6	93.9	94.2	94.2	94.9	96.0	96.7	96.0	96.4	96.4	95.4	75.4	96.4	96.4	96.4	96.4
fi C		67.4	75.3	95.7	95.7	95.4	97.5	97.5	97.5	97.9	97.6	97.8	97.8	97.9	97.8	97.8	97.8
üΕ		67.4	95.6	96.4	95.4	97.1	98.2	98.6	98.6	98.9	98.9	99.9	98.9	99.9	98.9	98.9	98.9
GE		07.4	26.4	76.9	90.9	97.5	98.6	98.9	98.9	99.3	99.3	90.3	99.3	99.3	99.3	99.3	99.3
•		• • • •		,				,,,,,	,,,,,	,,,,		. • •					,
ő E	5031	27.4	30.4	96.3	96.8	97.5	98.6	98.9	98.9	99.3	99.3	90.3	79.3	99.3	99.3	99.3	99.7
6 E		87.4	26.4	96.5	96 • 6	97.5	98.6	98.9	98.9	99.3	99.6	92.6	99.6	99.6	99.6	99.6	99.6
GE		67.4	16.4	96.0	96 • 3	97.9	98.9	99.3	99.3	99.6	100.0	137.3	100.0	100.0	100.0	100.0	100.6
6.5		67.4	96.4	96.5	76.8	97.5	96.9	99.3	99.3	79.6	100 C	137.0	100.0	100.0	100.0	100.0	100.0
űĒ		87.4	95.4	96.8	96.8	97.8	96.9	99.3	99.3	99.6	100.0	107.7	100.0	100.0	100.0	100.0	100.0
	,					,	,	,,,,			. 50 • L		. /0.0	200.0	2.0-0	.00.0	
65	21	97.4	25.4	96 . A	96.3	97.8	96.9	99.3	99.3	99.6	100.0	167.7	123.0	100.3	100.0	100.0	100.0
		-															
	•																

GLOBAL CLIMATOLOGY BRANCH USAFETAC AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURPENCE OF CEILING VERSUS VISIBILITY FROM HOWALY OBSERVATIONS

PERIOD OF RECORD: 77-86
MONTH: SEP HOURS(LST): 2100-2300 STATION NUMBER: 271137 STATION NAME: MURHANSK USSR

												m C N I H			15211:		
	£ 146	• • • • • •		• • • • • • •	• • • • • •	• • • • • • •				HUNDRED				• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • • • • • • • • • • • • • • •
		61	GE	G⊆	GΕ	GE	GE	GE A12181F	6E	HUNDKED: GE	GE	DE SE	GΕ	GE	GE	GE	GE
		160	9.c	3.5	5 i	49	40	32	24	2.5	16	12	10	3.5	υι. 5	4	Ω
	•			-						-				-	_		-
• • •	• • • • • •		•••••		••••••			• • • • • • • •	• • • • • • •	• • • • • • • •		• • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	•••••
N O	CEIL	13.5	19.2	17.2	19.5	19.5	19.9	19.9	19.9	19.9	19.9	12.9	19.9	19.9	19.9	19.9	19.9
	cere i	• 7• 3	17.12		1,.3	1,13		.,.,	1	1,,,	.,,,		.,.,	• , • ,	.,.,	• / • /	• • • •
L.F	200001	21.2	22.2	22.2	22.6	22.6	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9
	187031		22.2	27.2	22.0	22.0	22.9	22.9	22.9	22.9	72.9	27.9	22.9	22.9	22.9	22.9	22.9
	167031		22.2	22.2	22.6	22.6	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9
	142651		25.5	22.2	22.6	22.6	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9
	122001		22.2	22.2	22.0	22.0	22.9	22.9	22.9	22.9	22.5	>7.7	22.9	22.9	72.9	22.9	22.9
						2	,	,	,	22.	,	. •	,				,
6.5	100001	30.0	73.3	37.3	34.0	34.0	34.3	34.3	34.5	34.3	74 . T	34.3	34.3	34.3	34.3	34.3	34.3
GE	9: 501		33.3	33.3	34 . J	34.0	34.3	34.3	34.3	34.3	34 . 3	34.3	34.3	34.3	34.3	34.3	34.3
65	60001		73.3	33.3	34.0	34.0	34.3	34.3	34.3	34.3	34.3	34.2	34.3	34.3	34.3	34.3	34.3
GE	70301		33.3	33.3	34.3	54.J	34.3	34.3	34.3	34.3	34 2	34.3	14.3	34.3	74.3	34.3	34.3
GF	67631		34.7	34.7	35.4	35.4	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35 . 7	35.7	35.7
-	0 00.		,			•				230.							
GE	50051	34.C	35.4	35.4	₹6.3	36.7	37. G	37.0	37.0	37 . D	37.0	37.0	37.0	37.0	37.0	37.D	37.6
GE	45601		37.4	37.4	38.0	38.7	39.1	39.1	39.1	39.1	39 . 1	39.1	39.1	39.1	39.1	39.1	39.1
6 E	40001	41.4	43.4	43.4	44.1	44.8	45.1	45.1	45.1	45.1	45.1	4 - 1	45.1	45.1	45.1	45.1	45.1
6 E	35001	43.8	45.8	45.8	46.5	47.1	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5
GE	31001		49.8	49.8	50.5	51.2	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5
																- •	
GΕ	25551	67.4	72.1	72.1	72.7	73,4	74.4	74.4	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7
ĿĘ	ומסרב	71.7	76.1	76.1	76.8	77.4	78.5	79.5	78.8	78 . R	78.8	72.8	78.8	79.8	78.8	79.8	78.8
ĿΕ	10031	72.1	76.4	76.4	77.1	77.8	78.8	78.8	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1
GΕ	15001	74.7	79.5	79.5	80.1	83.8	81.8	81.8	82.2	82.2	A2.2	82.2	92.2	82.2	82.2	62.2	82.2
ĿΕ	12.00	62.8	91.2	91.2	92.3	93.3	94.3	94.3	94.6	94.6	74.6	94.5	94.6	94.6	94.6	94.6	94.6
																	-
G F	1:001	83.5	92.3	92.3	93.3	94.3	95.3	95.3	95.6	95.6	75.6	9 c . 6	95.6	95.6	95.6	95.6	95.6
ĿΕ	0001	84.2	73.3	93.3	94.3	95.6	96.6	96.6	97.0	97.0	97.6	97.0	97.0	97.7	97.0	97.0	97.0
ĿΕ	8001	84.2	93.€	91.6	94.6	96.0	97.5	97.0	97.3	97.3	97.3	97.3	9 3	97.5	91.3	97.3	91.3
GΕ	7.001	64.2	73.6	93.6	94.9	96.3	97.3	97.3	97.6	47.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
6.5	5301	84.2	93.9	94.3	95.6	97.0	98.0	98.0	98.3	98 . 3	98.3	20.3	99.3	98.3	98.3	98.3	98.3
GF	5001	84.5	74.3	94.5	96.3	97.3	98.3	99.3	98.7	98.7	98.7	90.7	98.7	98.7	98.7	98.7	98.7
UΕ		84.2	94.5	74.6	96.3	97.6	98.7	99.3	99.3	99.3	99.3	92.3	79.3	99.3	99.3	99.3	99.3
GΕ		54.7	94.3	94.€	96.3	97.6	78.7	99.0	99.3	99.3	99.3	90.3	99.3	99.3	99.3	99.3	99.3
ti E		84.2	94.3	94.6	96.3	97.6	98.7	99.0	97.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
G €	1001	84.2	34.3	74.6	96.3	97.6	98.7	99.0	99.3	79.3	99.3	90.3	99.3	99.3	99.3	99.3	99.7
_																	
G.F.		64.2	04.3	94.6	96.3	97.6	98.7	99.7	99.3	99.3	99.3	90.3	99.3	99.3	99.3	99.3	100.0

GLOGAL CLIMATOLOGY BRANCH USAFETAC AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURPENCE OF CEILING VERSUS VISIBILITY FROM FOURLY OBSERVATIONS

STA	TICN N	UMBER:	221130	STATE	ON NAME:	HURM	ANSK US	SR				PE 0 10D	OF REC	DRD: 77	-86		
												HONTH	-		16571:	ALL	
	LING	• • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •		VISIBIL					• • • • • • •	• • • • • • •	• • • • • • •	• • • • • •	• • • • • • • • • • • • • • • • • • • •
I		GT	65	SE	GE	GΕ	65	GE	GΞ	GE	GE	r, E	GĘ	GE	GE	GŁ	GF.
FΕ			90	36	ن 6	48	40	32	2 4	2 3	16	1.2	13	Я	5	ų	Đ
• • •	• • • • •	• • • • •	• • • • • •		• • • • • •			• • • • • •	• • • • • •	• • • • • • •	• • • • •	• • • • • •	• • • • • • •	• • • • • • •	• • • • • •	• • • • • •	• • • • • • • • • •
N O	CEIL	14.9	16.2	16.4	16.7	16.9	17.0	17.0	17.0	17.1	17.1	17.2	17.2	17.2	17.3	17.3	17.3
GE	200401	16.4	17.9	18.1	18.4	18.6	18.7	18.7	18,7	18.9	18.6	19.7	18.9	19.9	19.0	19.0	19.0
	187071		17.9	19.1	18.4	19.0	18.7	18.7	13.7	15.8	18.8	10.9	18.9	18.9	19.0	19.0	19.0
5 F	160001	16.4	17.9	18.1	18.4	19.6	18.7	18.7	18.7	18.8	18.8	Ĭn.a	18.9	18.7	19.0	19.0	19.0
ĿΕ	147021	16.4	17.9	18.1	18.4	19.0	18 • 7	18.7	18.7	18.9	10.8	18.9	18.9	19.9	19.0	19.0	19.0
υE	127021	16.4	17.5	19.1	18.4	19.6	18.7	18.7	18.7	18.9	18.6	10.0	18.9	18.9	19.0	19.0	19.0
6 F	Inprei	27.0	29.8	37.2	37.6	30.9	31.4	31.5	31.7	32.0	32.0	37.1	32.1	32.2	32.2	32.2	32.2
υF	90651		29.8	30.2	30.6	30.9	31.4	31.5	31.7	32.7	32.0	37.1	32.1	32.2	32.2	32.2	32.2
ĿΕ	8 401	27.0	27.6	30.2	30 . 6	37.9	31.4	31.5	31.7	32.0	32.C	32.1	32.1	32.2	32.2	32.2	32.2
6 E	70001	27.2	29.8	30.2	33.6	30.9	31.4	31.5	31.7	32.0	32.0	32.1	32.1	52 . 2	32.2	32.2	32.2
υ£	₀ ^65	27.4	? i. 1	30.6	31 . J	31.3	31.8	31.9	32.1	32.4	32.4	32.5	32.5	32.5	32.6	32.6	32.6
L.E	50001	28.2	31.0	31.4	31.9	32.3	32.8	32.9	33.1	33.4	33.4	31.5	33.5	33.5	33.6	33.6	33.6
l₁ €	45001	29.4	32.2	32.6	33.1	33.5	34.0	34.1	34.3	34.6	34 . €	34.7	34.7	34 . 9	34.8	34.8	34.8
GΕ	4 '431		39.7	39.3	39.5	47.4	40.9	41.0	41.2	41.5	41.5	41.6	41.6	41.7	41.7	41.7	41.7
CE	35001		4).8	41.5	42.0	42.6	43.1	43.2	43.4	43.7	43.7	43.8	43.8	43.9	43.9	43.9	43.9
G E	39001	39.5	43.3	43.7	44.4	45.0	45.5	45.6	45.8	46.1	46.1	45.2	46.2	45.3	46.3	46.3	46.3
GE	25 001	59.3	64.7	65.5	66 • 4	67.3	67.7	67.9	68.2	68.5	68.7	6 7	68.0	68.9	68.9	68.9	68.9
G F.	21 301	€1.4	63.1	69.0	69.9	77.6	71.3	71.4	71.8	72.1	72.2	72.3	72.3	72.4	72.4	72.4	72.4
G F.	18001		69.6	77.5	71 - 4	72.1	72.8	72.9	73.3	73.6	73.7	77.8	73.9	73.9	73.9	73.9	73.9
GE	15001	65.1	72.4	73.3	74 + 2	74.9	75.6	75.7	76.1	76.4	76.6	74.7	76.7	76.8	76.8	75.8	76.8
υE	12001	75.6	R5.6	36.3	د • 88	8 • 8	90.3	90.4	93.9	91.3	91.4	91.5	91.7	91.7	91.8	91.8	91.8
5 E	10001	76.4	F 0 . 9	38.2	89.4	93.3	91.7	91.9	92.0	92.8	92.4	97.3	93.2	93.2	03.3	93.3	93.3
UΕ	3001	77.1	97.9	87.3	90.6	91.5	93. D	93.1	93.6	94.9	94.1	94.3	94.4	94.4	94.5	94.5	94.5
65		17.6	34.8	93.2	91.5	92.4	94.0	94.1	74.6	95.0	95.1	9" . 3	25.4	75.4	95.5	95.5	95.5
65	7001	79.1	99.7	91.2	92.6	93.7	95.3	95.5	96.1	96.5	96.7	96.9	46.9	97.D	97.1	97.1	97.1
6 F.	6031	73.1	។ព∙ប	91.5	93.3	94.1	95.7	95.9	96.5	96.9	97.2	97.3	97.5	97.5	97.6	97.6	97.6
G F.		78.2	93.1	91.7	93.3	94.4	96.3	96.3	96.8	97.3	97.7	97.8	97.9	98.3	98.1	98.1	98.1
СÇ		78.2	33.5	91.9	93.5	94.6	96,2	96.5	97.1	97.6	98.C	94.1	99.2	98.3	98.4	98.4	98.4
6		73.2	95.3	91.9	93.5	94.7	96.4	96.7	97.2	97.8	98 . 2	35.3	98.4	98.5	98.6	98.6	98.6
GE		79.2	73.3	92.3	93.1	94.3	96.5	96.8	97.4	97.9	98.3	92.4	98.6	98.8	99.0	99.0	99.0
ር F	1331	78.2	90.4	92.0	93.7	94.8	96.5	96 • 8	97.4	97.9	98.4	90.5	98.6	98.9	99.3	99.4	99.7
GE		78.2	30.4	92.6	93.7	94.0	96.5	96.8	97.4	97.9	98.4	90.5	98.6	98.9	99.3	99.4	100.0
			• • • • • •														

GLOBAL CLIMATOLOGY BRANCH USAFETAC AIR WEATHER SERVICE/MAC

PERCENTAGE FRENUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

PERIOD OF RECORD: 77-86

STATION NUMBER: 221130 STATION NAME: MURMANSK USSR

MONTH: OCT POURS(LST): DOJO-0200 WINTE: OCT

VISIBILITY IN FUNDREDS OF METERS

GE GE GE GF CEILII.G ijΕ GE G € 32 GE 20 GE IN 1 01 FEET 1 160 23 24 4.2 4 C 1.2 п 60 4 8 16 10 NO CETE | 15.8 17.8 18.1 18.1 18.1 18.8 18.8 16.9 14.1 18.1 18.1 18.0 18.8 16.6 6E 200001 17.8 18.8 19.9 27.1 20.1 20.1 22.1 20.8 20.8 20.8 20.8 26.1 23.1 20.8 20.5 20.5 20.5 GE 19000| 17.8 GE 16000| 17.8 GE 19000| 17.8 19.8 23.1 20.1 20.1 20.1 20.8 26.8 20.8 2C+1 2J. 1 20. 1 23.1 20.8 20.8 18.8 19.8 19.6 20.1 27.1 23.1 20.8 20.8 29.8 20.8 29.1 20.1 20.8 20.8 18.3 15.8 19.8 23.1 20.0 6E 127001 17.8 20.1 20.1 20.1 20.8 23.4 20.8 20.8 GE 100001 26.2 37.9 37.9 37.7 37.7 23.5 29.5 29.5 29.9 29.9 29.9 30.5 30 • 5 31.2 31.2 31.2 31.2 31.2 90001 26.2 81001 25.2 7001 26.2 28.5 28.5 29.5 29.9 25.9 29.9 30.5 30.5 30.5 30.5 30.5 71 · 2 31 · 2 31.2 31.2 31.2 31.2 31.2 28.5 29.5 29.9 29.9 29.9 30.5 23.5 28.5 79.5 29.9 29.9 29.9 30.5 30.5 33.5 11.2 31.2 31.2 31.2 31.2 30.9 30.9 50001 27.7 ₹J•5 33.5 31.5 31.9 31.9 31.9 32.6 33.2 33.2 32.6 32.6 33.2 53.2 35.2 47.9 47.3 45.3 45001 30.2 32.9 32.9 33.9 34.2 34 • 2 39 • 6 34.2 39.6 34.9 34.9 43.6 35.6 35.6 35.6 35.6 35.6 LF 34.9 40.6 GE 35001 36.2 30001 38.9 39.3 43.5 40.9 42.6 43.3 45.6 41.9 43.6 44.0 44.3 45.0 45.0 45 . 6 45.6 45.6 54.4 (, r 25001 51.0 58 . 7 59.1 59.7 59.7 63.7 61.1 61.4 61.7 61.7 61.7 61.7 56.4 60.7 61.7 2100| 55.4 1830| 56.4 1500| 59.4 GΕ 61.1 62.1 61.1 63.8 64.1 64.8 64.8 65.8 05.8 64.4 66.8 66.8 66.1 66.8 66.9 66.8 67.4 67.8 67.B 67.8 GΕ 62.1 64.9 65.1 65.8 65.8 66.8 66.8 67.1 67.3 57.8 71.5 71.8 69.1 71.5 71.8 66.1 66.1 65.3 69.8 69.9 70.8 73.8 71.1 71.8 10001 71.8 n J. 9 87.2 a 2 • 6 úΕ 10001 73.5 82.2 97.2 87.6 68.9 89.9 21. 3 02.6 92.7 93.1 93.3 01.1 93.3 91.1 9011 74.2 PODI 74.5 33.6 63.9 89.6 89.3 90.9 93.0 93.6 94.3 94.6 U.F PJ . 3 89.9 92.6 94.C 94.6 94.6 94.6 94.6 84.6 88.9 91.6 93.3 94.6 91.3 25.3 95.3 95.3 G c. . 6 7321 74.8 24.9 85.2 86.2 89.5 89.9 91.3 92.3 95.3 96.0 96.3 96.0 96.0 96.0 90.9 92.3 96.6 90.6 95.1 95.3 96.3 97.0 97.0 97.0 5001 75.8 90.9 91.3 92.6 93.6 95.3 95.6 97.L 97.3 97.7 97.7 97.7 97.7 4001 75.8 3001 75.8 86.6 86.0 91.3 91.6 93.0 93.0 94.3 97.7 99.3 98.3 98.3 98.3 99.3 96.3 96.0 86.9 GΕ 16.6 91.3 91.6 94.3 96.0 96.3 96.1 97.7 90.0 98.3 98.3 98.3 98.3 98.3 99.0 96.7 99.3 36.6 86.9 91.3 91.6 93.0 94.3 96.3 96.3 97.7 OA. T 99.3 99.3 100.0

TOTAL NUMBER OF OFSERVATIONS:

86.6

86.9

91.3

91.6

93.6

94.3

96.C

96.3

97.7

90.3

98.3

99.3

99.3

99.3 100.0

JI 75.8

6 E

GLOBAL CLIMATCLOGY BRANCH USAFETAC AIR WLATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OUSERVATIONS

STATI	ON N	UKAŁF:	271132	STATIO	16 11 ME:	HURM A	NSK USS	SR						0RD: 77-8 HOURSEL
			,											
CEILI	t. G						,	/ISIBILI	TY IN F	TUNDREDS	OF M(1	1686		
I to	1	6 T	Ŭ F	GE	υE	GE	ÚĒ	G£	Œ	GE	GE	U.F.	GΕ	GE
FFFT	- 1	16.0	9.0	4^	60	4.8	9 (4	32	24	2 つ	1.6	1.2	1.0	я

STATION NUMBER: 271132 STATICE WATE: MURMANSK USSR										PEPIDU OF RECORD: 77-86 MONTH: OCT HOURS(LST): 0300-0500							
CEILING VISIBILITY IN HUNDREDS OF METERS																	
1	$\kappa = 1$	6 T	GF	GE	υE	GE	üΕ	G£	GE	ĞE	GE	U.F.	GΕ	GΕ	GE	GE	GE
FE	ET	160	øβ	40	6 i	4.8	93	32	2 4	2.0	16	12	10	Я	5	4	0
NO	CEIL	15.9	17.3	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.9	17.9	17.9	17.9
6 E	contal	16.6	18.3	19.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	14.9	18.9	19.3	19.3	19.3	19.3
	180001		15.3	18.9	14.9	18.7	18.9	18.9	18.9	18.9	18.9	10.9	18.9	19.3	19.3	19.3	19.3
GΕ	100001	16.6	15.3	18.9	18.9	18.9	18.9	18.9	16.9	18.9	18.9	19.9	16.9	19.3	19.3	19.3	19.3
ь€	140001	16.6	19.3	18.9	10.9	18.9	18.9	18.9	14.9	18.9	18.9	18.9	18.9	19.3	19.3	19.3	19.3
ιE	120001	16.6	13.3	19.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	10.0	18.9	19.3	19.3	19.3	19.3
to F	100001	24.9	76.9	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.9	27.9	27.9	27.9
υE	97601	24.9	26.9	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.5	27.6	27.9	27.9	27.9	27.9
6 F.	87051		26.9	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.9	27.9	27.9	27.9
€.	70001		76.9	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.9	27.9	27.9	27.9
ն F	60001	24.9	26.9	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.9	27.9	27.9	27.9
U E	51001		24.2	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	20.0	29.9	30.2	30.2	30.2	30.2
ĿΕ	45001		29.2	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	24.9	29.9	30.2	30.2	30.2	30.2
ι, Ę	40001		34.6	35.2	35 . 2	35 • 2	35.2	35 • 2	35.2	35.2	35.2	35.2	35.2	35.5	35.5	35.5	35.5
GE	35001		37.5	38.2	38.5	38.5	38.5	38.5	38 • 5	38.5	38 • 5	38.5	38.5	38.9	76.9	39.9	38.9
úΕ	30001	37.9	46.9	41.5	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.0	41.9	42.2	42.2	42.2	42.2
6 E	27001	50.2	95.5	56.5	57.1	57.1	57.1	58.1	58.8	58.8	59.1	50.1	59.1	59.5	59.5	59.5	59.5
6 E	20001	52.2	57.5	59.5	59.1	59.1	59.1	60.1	60.9	60.9	61.1	61.1	61.1	61.5	61.5	61.5	61.5
G E	18001	53.5	59.1	63.1	6U.b	8.00	6Ç. 6	61.8	62.5	62.5	62.8	62.3	62.8	63.1	63.1	63.1	63.1
ĿΕ	15001		63.5	64.5	65.1	65.1	65.1	66.1	66.8	66.8	67.1	υ 7 • 1	67.1	67.4	67.4	67.4	67.4
GΕ	12054	69.1	7++7	79.7	R2.1	82.7	83.4	84.7	96.4	b6 . 7	97.4	6 7 . u	F7.4	87.7	87.7	87.7	e 7 • 7
GΕ	10001	71.1	-1.4	£2.4	84.7	85.7	96.4	87.7	89.4	89.7	93.4	97.4	93.4	93.7	93.7	90.7	90.7
ĿΕ	2001	71.1	02.1	53.1	66.0	87.C	87.7	89.0	99.7	91.0	71.7	91.7	91.7	92.3	92.0	92.0	92.3
ΰĒ	8001	72.1	33.1	84.1	57 · u	8 9 . G	86.7	90.0	91.7	92.0	92.7	92.7	92.7	93.3	93.0	93.0	93.0
CÉ		72.A	94.4	85.4	88 . 4	89.4	30.0	91.4	93.0	93.4	94.0	94.0	94.0	94.4	94.4	94.4	94.4
t, Ę	(301	72.9	54.4	85.4	89.0	97.4	91.0	92.4	94.0	94.4	95.7	95.1	95.0	95.3	95.3	95.3	95.3
úΕ		72.P	54.4	#5.4	89.4	93.7	91.7	93.0	94.7	95.0	95.7	95.7	95.7	96.3	96.0	96.0	96.0
υĘ		72.8	94.7	85.7	ن ل 9	91.4	92.4	94.0	95.7	96.3	96.7	95.7	96.7	97.0	97.0	97.0	97.0
6 E		72.8	- 4 - 7	86.	90.4	91 • 7	92.7	94.4	96.3	96.7	97.3	97.3	97.3	97.7	97.7	97.7	97.7
6.5		72.8	- 4 - 7	96 • C	90.4	51.7	92.7	94.4	96.3	96.7	97.3	9/.3	97.3	98.3	98.7	98.7	98.7
ĿĒ	1571	72.8	34.7	96.0	90.4	91.7	92.7	94.4	96.3	96.7	97.3	97.3	97.3	98.3	99.0	99.3	100.0
€.	•	72.8	84.7	56	90.4	91.7	92.7	94.4	96 • 3	96.7	97.3	97.3	97.3	98.3	99.0		100.0

GLOHAL CLIMATOLOGY PRANCH USAFLIAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

AIR WEATHER SERVICE/MAC

(

0

 \mathcal{C}

O

0

0

 \mathbf{C}

C

0

0

O

0

STATION NUMBER: 221137 STATION NAME: MURHANSK USSR PERIOD OF RECORD: 77-86 MONTH: OCT HOURS(LST): 0600-0800 VISIBILITY IN HUNDREDS OF METERS CEILING FEET ! GE G I 0.3 6.. 45 40 32 24 16 12 10 5 n NO CLIL | 16.7 17.7 17.7 13.0 18.4 19.4 .F 200GG1 17.7 18.7 16.7 14.7 19. J 19.4 19.4 19.4 19.4 19.4 19.4 17.4 19.4 19.7 19.7 17.4 19.0 19.4 19.4 19.4 17.4 19.4 19.4 19.7 UE 160001 17.7 14.7 13.7 19.7 19.4 19.7 UE 167801 17.7 GC 148301 17.7 10.7 19.7 19.4 19.4 19.7 18 - 7 19.4 19.4 19.4 19.4 19.4 19.4 19.7 19.0 18.7 19.4 19. 6E 12"631 17.7 18.7 17.4 19.4 19.4 19.4 19.4 19.4 19.7 19.7 30.6 30.6 30.6 30.6 66 100001 26.2 28.6 29.6 26.9 29.3 29.9 29.9 30.3 33.6 ?۵.€ 33.6 30.5 33.6 31.0 31.6 90001 26.2 87001 26.2 77001 26.2 ωE 28.6 28.6 28.6 28.6 28 . 7 29.3 29.9 29.9 33.3 30.3 33.6 30.6 30.6 30.6 30.6 31.0 31.0 28.9 28.9 29.9 30.6 30.€ 30.6 37.6 73.6 31.0 11.0 29.3 37.6 úΕ 79.6 23.6 79.9 29.9 30.3 30.6 30.6 37.6 7 1.6 31.0 31.0 29.6 60001 26.2 23.5 30.6 26.9 29.9 30.6 33.3 33.6 65 72.3 30.3 31.0 31.6 31.5 32.0 52.3 32.3 52.3 32.7 GE 50001 27.6 10.3 30.6 45 (0) 23.6 45601 31.3 32.7 35.4 34.0 34.D 36.7 5 E G F 1.3 32.7 33.0 33.3 33.3 3 . . . 33.7 33.7 33.7 51.3 31.6 32.0 34.0 35.7 36 - 1 35.4 34 . 7 34 . 4 34 . 7 35.4 36.1 36.1 36.4 36 . 4 36 - 1 37.1 37.4 30001 35.0 39.4 38.0 39.1 39.5 40.1 40.1 40.8 41.2 41.2 41.2 41.5 41.5 57.6 57.8 57.8 58.2 25001 48.2 55.1 56.5 56.8 57.5 54.2 58.2 58.5 58.5 G F 52.7 53.7 54 . 4 59.2 67.5 67.9 2007 49.0 18321 50.3 15801 53.1 59.5 59.2 59.2 59.5 59.5 59.9 59.9 57.8 57.1 56.5 57.6 58.2 υE 54.1 55.1 58 . 8 59.2 62.6 59.5 GE 55.4 56.5 60.2 60.5 60.5 60.9 63.9 63.9 61.2 61.2 55.8 63.9 64.3 64.3 64.3 61.2 63.6 63.9 77.6 G F 17001 67.0 79.5 84.0 25.7 86.1 86.7 87.9 98.1 89.1 8.88 88.8 98.8 89.1 89.1 97.1 97.3 97.5 üΕ 9001 69.4 6001 69.0 77.6 82.0 83.7 84.4 86.7 87.8 88.4 88.1 88.6 89.5 89.8 93.1 90.8 93.8 90.8 91.2 91.2 90.8 91.5 91.5 91.6 65 92.5 91.5 82.7 7331 69.7 6331 69.7 93.9 F1.J 85.0 67.E P 9. 5 99.9 90.5 93.2 93.2 91.7 93.5 93.5 93.5 90.5 91.8 427 67.7 93.5 93.9 94.6 94.6 94.9 94.9 c.T. 91.3 83 ... 35.4 63.1 94.5 93.8 91. 6 74.6 3001 67.7 3001 70.4 ĿΕ 81.6 96 . . 69.1 92.2 94.9 95.2 95.2 95.9 95.9 95.9 96.3 96.3 91.5 93.2 92.5 t, E 84.4 87.1 93.2 94.6 96.3 96.6 9f .6 97.3 97.3 97.3 97.6 97.6 UCT 70.4 42.3 A7.1 84.4 5 D = 1 93.2 56.6 97.3 94.6 96.3 97.6 98.0 96.6 6.5 1.01 70.4 32.3 . 4 . 4 67.1 92.1 93.2 96.6 97.3 98.3 100.0 77.4 92.1 82.3 84.4 87.1 92.5 94.6 36.6 96.6 97. 1 97.6 98.3 98.6 100.0

GLURAL CLIMATOLOGY BRANCH USAFETAC AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURPENCE OF CEILING VERSUS VISIBILITY FROM FOURLY OBSERVATIONS

STATION NUMBER: 271137 STATION NAME: MERMANSK USSR PETIOD OF PECORO: 77-86 VISIBILITY IN HUNDREDS OF METERS

OF GE GF
40 32 2" MONTH: OCT FOURS(LST): 0900-1100 SE GF GE GE SE 32 24 27 16 11 II4 | GT FEET | 160 9 J 6E et S 6 E 8 UE S GE 63 1 160 : 3.^ NO CETE | 11.3 12.6 13.0 13.5 13.0 13.0 13.G 13.0 13.0 11.3 17.0 13.3 13.3 13.0 13.0 1.9 15.9 GE 201001 14.1 15.5 15.9 15.9 15.9 15.9 15.7 15.9 15.9 15.9 15.9 15.9 65 18030| 14.0 65 16030| 14.5 65 14030| 14.7 15.9 15.9 1° .° 1° .° 1° .° 15.9 15.9 15.9 15.9 15.9 15.9 15.3 15.3 15.9 15.9 15.9 15.9 15.9 15.9 15.9 15.9 15.9 15.9 15.9 15.9 15.7 15.7 15.9 15.3 15.9 15.9 15.9 15.9 15.9 15.5 15.9 15.9 15.9 15.9 15.9 27.2 21.9 27.9 27.9 JE 100001 22.6 25.6 27.2 27.2 27.9 27.9 27.9 46.3 26.3 26.6 97001 22.6 87001 22.6 77001 22.6 27.9 27.9 27.9 27.9 27.9 27.9 27.9 27.9 27.9 27.2 27.2 21.2 21.9 27.9 27.9 21.9 27.9 25.6 26.2 26.2 26.0 25+6 26.2 26 • 2 26 • 2 26.6 27.2 26.6 27.9 27.9 26.2 27.2 27.2 27.9 66 STOCK 23.3 27.9 29.6 28.6 28.6 26.2 26.5 76.9 21.2 27.9 27.9 29.6 28.6 28.5 25.6 28.6 45001 24.6 47001 27.2 35201 27.9 27.9 37.2 34.6 29.9 29.9 29.9 29.9 29.2 29.9 29.9 29.9 27.6 28.2 28 + 2 30 • 9 29.2 26.0 29.2 31.9 32.6 53.2 33.2 33.2 33.2 53.2 33.2 33.2 31.2 31.9 GΕ 31.2 31.9 31.9 32.2 33. 2 33.2 33.9 34.5 34.6 34.6 34.6 34.6 34.6 34.6 4 E 25031 40.7 21001 43.2 18421 44.2 52.5 53,8 υĒ 49,3 51.2 51.8 53.8 53.9 46.5 48.8 49.2 51.2 50.5 54.2 55.1 56.8 58.1 56.8 56.8 58.1 56.8 56.8 59.1 57.1 58.5 68 51 - 8 52.5 54.8 55.5 56 . 8 56.9 UE 50.1 55.8 56.5 38 · 1 52.8 53.3 59.1 15031 45.2 12001 59.1 52.5 72.1 57.5 F9.1 50.1 59.1 59.1 59.1 ĿΕ 14.3 76.1 76. 1 84.4 67.1 85.0 88.7 80.7 53.7 59.0 99.0 39.0 89.4 10001 61.5 73.4 76.1 71.7 82.4 83.4 98.7 9001 61.5 5001 61.6 73.4 76.1 79 50.4 61.4 82.7 93.7 83.7 85.7 89.4 90.4 49.4 89.7 P9.7 90.0 83.1 50 74.4 84.7 87.0 90.0 90.7 97.7 91.3 91.0 91.0 91.4 7031 62.1 92.4 υE. 4.9 81.7 84. I 85.4 97.7 92.0 92.0 G F 5001 62.1 74.8 77.4 80.4 94.4 86.0 88.7 92.4 93.C 91.7 93.0 93.4 93.4 93.4 93.7 4001 62.5 3001 62.5 96.0 75.1 82.7 82.7 85.4 87.0 87.0 90.4 93.7 95.0 95.3 95.3 51.4 94.0 95.3 95.3 95.3 95.7 73.1 77.7 31.4 34.4 95.3 95.7 95.7 95.7 96.0 2401 62.5 91.7 96.7 97.3 97.0 t. F 75.4 19.1 81.7 43.1 85.7 21. 2 94.7 95.7 95.7 97.0 97.7 1401 62.5 96.D 19.4 91.4 96.0 96. E 97.7 ĢΕ 21 62.5 75.7 91.4 96.0 94.0 96.0 97.0 98.0 100.0 78.4 94 . 1 03.4 96.5 87.7 45.3

TOTAL NUMBER OF OHSERVATIONS:

311

GLOBAL CLIMATOLOGY FRANCH USAFLTAC AIR WEATHER SERVICE/MAC

PERCENTAGE FREWDENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

		_	221130					=				HIMPM	•	HOURS	(LST):		
		• • • • • •	• • • • • •	• • • • • • •	• • • • • • •	• • • • • • •				FUNDR EDS			• • • • • • •	• • • • • • •	• • • • • •	• • • • • • •	• • • • • • • •
1:	4 I	6.1	GF.	Gi	υE	7.6	G.	GE	G.E.	GE	GE	c. F	GI	G.F.	GΕ	SE	GE
LFL		167	9.5	2.3	5. •••••	49	ن ¥ • • • • • • •	32	24	27	16	12	10	я			<i></i>
	CEIL I		15.9	16.6	15.6	14.6	16.6	16.6	10.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6
		• • •				• • •				• • • •			•••				
	31.1004		17.5	. 4 . €	10.5	12.3	18.3	19.3	18.3	18.7	18.3	1 4 . 7	14.3	18.3	18.3	19.3	18.3
	18,70		17.3	13.0	18.3	19.3	14.3	10.3	18.3	18.3	18.3	1 !	1 → . 3	18.3	1 + . 3	18.3	10.3
	109331		17.3	18.0	10.3	19.3	16.3	18.3	18.3	18.5	18.3	10.1	14.5	19.3	18.3	14.3	18.3
	140001		17.3	15.0	18.3	13.1	18.3	18.3	18.3	18.3	18.2	17,7	1 A · 3	19.3	10.3	19.3	18.3
uf.	127001	16.6	17.3	18.0	13.3	19.3	10.3	19.3	18.3	19.3	19.3	19.3	14.3	18.3	18.3	19.3	18.3
GE :	: 5231	۵.4	29.0	37.4	31.5	31.5	31.5	31.5	31.5	31.9	31.6	21.8	21.3	31.3	71.6	31.8	31.6
GE	9.001		29.4	37.4	31.5	31.5	31.5	31.5	31.5	31.9	31.€	31.9	21.0	31.3	31.0	31.8	31.8
3 F	50001		29.8	3 . 4	71.5	31.5	11.5	31.5	31.5	31.9	31.0	11.0	31.8	31.9	71.5	31.8	31.8
υľ	أدد-7		29.8	30.4	31.5	31.5	31.5	31.5	31.5	31.9	31.8	3 9	31.6	31.0	71.8	31.8	11.6
6.6	6 321		1.1	30.2	31.3	31.3	31. B	31.8	31.8	32.2	32.2	3 7	32.2	32.7	32.2	32.2	32.2
6 E	Shant	- o o	11.1	31.5	32.5	37.,	32.9	32.9	32.4	33.2	13.2	37.2	73.2	33.2	13.2	33.2	33.2
G.F	45731		*2.2	32.9	73.7	33.9	33.9	33.9	55.9		79.3	34.3	34.3	24.3	34.3	34.7	34.3
6.E	47071		35.3	36.5	37.0	37.3	37.6	37.0	37.3	34.3 37.4	77.4	37.4	77.u	37.4	77.4	37.4	37.4
			77.4	30.3			39.1	39.1	37.1	39.4	79.4	35.4	37.4	39.4	79.4	39.4	37.4
65		34.4			39.1	30.1											
υť	3,601	7300	?9.4	37.1	40.5	47.5	46.5	43.5	40.5	40.8	43.6	4 - • 7	4.).6	4 D • B	40.0	9.04	4 C • 8
a r	25071	44.4	53.6	54.7	56 . 1	56.7	57.4	58.5	58.8	59.5	59.5	50.0	4.9.4	59.9	59.9	59.9	9.9
G.E	20001	50.9	56.1	57.1	53.5	57.2	59.9	67.9	61.2	02.3	62.3	£7.6	67.6	62.6	62.0	62.6	62.6
ti F	18671	01.9	57.4	59.5	59 + +	67.6	€1.2	62.3	62.6	63.7	63.7	64.7	64.G	64.0	64.0	64.0	64.0
5 f.	15671	54.0	59.7	51.9	62.5	63.3	63.7	64.7	65.1	06.1	66.1	64.4	66.4	66.4	56.4	66.4	66.4
6 E	12321	67.1	77.5	74.5	95.6	81.3	≥3.0	84.1	A 4 . 4	8.28	95.4	86.2	F5.2	86.2	P6.5	n6.5	86.5
ιE	12901	66.7	70.9	91.3	83.4	£4.1	45.8	86.9	87.5	69.3	99.1	67.6	97.6	89.6	93.3	97.0	93.0
6 E		60.5	# 2 • 6	92.0	84.1	54.0	Se. 5	87.5	18.2	90.0	90.0	90	97.3	90.3	23.7	97.7	90.7
C.F		69.7	41.3	82.7	85.1	35.5	47.5	3P.6	87.3	91.7	91.0	91.3	71.3	91.3	91.7	91.7	91.7
55		69.5	3 1. 7	84.4	81.2	87.9	30. n	91.G	91.7	95.4	04.1	94.5	94.5	94.5	74.8	74.8	94.8
ر. ئ ل		7~.2	3.7	35.1	47.3	69.6	91.0	92.0	93.1	94.4	95.5	94.9 95.8	95.8	95.9	95.2	96.2	96.2
J 1.		• • •	J• /	3,.1	~,,,	0.1.0	7110	7	7 3 - 1	74.4	~ 3.3	y - • ~	4).6	7367	73.2	75.62	70.2
GΕ		17.6	×4 • 1	35.5	58.3	87.3	71.7	97.7	93.8	95.5	76.2	94.5	96.5	76.5	96.9	96.9	96.9
ь <u>е</u>		75.E	1.4.1	85.5	98.5	h7.3	71.7	97.7	94.1	46.2	76.9	97.2	97.2	97.2	97.6	97.6	97.6
υE	. 1.1	77.6	a 4 • 1	55.5	88.5	87.5	71.7	92.7	74.1	96.7	27.2	97.6	71.6	97.6	97.9	97.9	97.9
65	2.21	72.6	24.1	35.5	65.5	ન્≎. 3	51.7	92.7	94.1	46.2	97.2	97.6	47.6	99.5	99.3	99.3	99.3
J.F	1001	73.6	94.1	45.5	98.6	67.3	91.7	92.7	94.1	16.2	97.2	97.6	₹7.6	99.3	99.3	60.3	100.0
G C		70.6	04.1	45.5	E 3 • 0	37.3	-1.7	97,7	94.1	2	97.2	97.6	27.6	99.3	99.3	0.4.1	100.0

TOTAL NUMBER OF OBSTRUCTIONS: 189

GLORAL CLIMATOLOGY RRANCH LSAFLTAC ATR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

PERIOR OF RECORD: 77-86

STATION NUMBER: 221137 STATION NAME: MURMANSK USSR

3					- 13 03	•				MONTH	: OCT	H0U22	(LST):	1500-17	CO
	• • • • • •	• • • • • •		• • • • • • •		• • • • • • •	,			• • • • • •	• • • • • •			• • • • • •	• • • • • • • • •
CEILING								HUNDREDS							
19 61	GE	O.L.	G٥	GE	GΞ	GE	GE	GΕ	GΕ	ı. F	6 f	SE	GE	GE	GE
FEET 1 160	, 5	वङ्	6.0	4 ĉ	40	32	2.4	2.7	16	12	10	3	5	4	0
	• • • • • •	• • • • • • •	• • • • • •	• • • • • • •		• • • • • • •		• • • • • • •	• • • • • • •	• • • • • •	• • • • • • •	• • • • • • •		• • • • • • •	• • • • • • • • • •
NO CELL 16.7	17.5	17.5	17.7	17.7	18.4	18.4	13.4	18.4	18.4	14.4	13.4	18.4	18.4	10.4	18.4
aE garaal 17.0	19.7	19.7	22.3	20.3	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.3	21.0	21.0	21.0
65 187831 19.0	19.7	19.7	23.3	20.3	71.0	21.0	21.0	21.7	21.0	21.0	21.0	21.0	21.0	21.0	21.0
6E 16' 001 19.7	17.7	19.7	20.3	27.3	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.2	21.0	21.0	21.0
GE 14767 19.5	19.7	19.7	23.3	. 7.3	21.0	21.0	21.6	21.3	21.0	21.0	21.0	21.0	21.0	21.3	21.0
38 120001 17.0			23.3				21.0	21.3	21.0	21.5	21.0	21.0	21.0	21.0	21.0
3E 1E 331 17.0	1 7 . 7	19.7	-7 • 3	20.3	21.0	21.0	24.5	21.0	31.0	2:•3	c 1 • C	21.0	. 1 • 0	21.0	71.0
65 10737 26.2	24.5	24.5	29.2	29.5	70.8	33.8	30.6	31.1	τ1 · i	31.1	31.1	31.1	71.1	31.1	31+1
65 9:37 26.2	23.5	29.5	27.2	29.5	30.8	30.9	30.5	31.1	31.1	31.1	31.1	31.1	71.1	31.1	31.1
SE 80001 26.7	28.5	23.5	29.2	22.5	30.a	37.8	3J.8	31.1	31.1	31.1	71.1	31.1	31.1	31.1	*1.1
US 7.531 26.2	25.5	23.5	29.2	29.5	31.8	30.8	30.8	31.1	31 • 1	31.1	31.1	31.1	<1.1	31.1	71.1
95 67571 26 . 2	23.5	23.5	29 . 2	29.5	35.8	37.8	30.8	31 • 1	51 • 1	31.1	31.1	31.1	31.1	31.1	31.1
6E 51031 27.5	27.8	27.8	s	37. n	32.1	32.1	32.1	32.5	32.5	37.5	12.5	32.5	72.5	32.5	32.5
68 45371 27.9	20.2	32.2	35.8	31.1	32.5	32.5	32.5	32.9	32.8	57.9	32.8	32.9	32.8	32.P	32.6
US 4700 31.1	73.4	33.4	34 . 4	34.9	?6.1	36.1	36.1	36.4	36.4	36.4	36.4	36 • 4	76.4	36.4	36.4
66 35021 32.5	34.8	35.1	35 • 1	36.4	37.7	37.7	37.7	38.7	38 . 0	30.7	33.0	38.0	19.0	39.0	38.0
JE 11001 34.8	-7.4	37.7	38 • 7	37.0	46.3	40.3	43.3	40.7	40.7	47	43.7	40.7	40.7	42.7	40.7
6F 25,3} 48.5	. 4.1	*	55.7	55.4						6.0				60.0	60.0
	-	54.5			59.0	50.3	59.3	60.0	60.0		6 3 • E	60.0	63.0		
	56.7	57.4	58 • 4	59.0	61.6	62.3	62.0	62.6	62.6	67.6	62.6	62.6	62.6	02.6	62.6
05 1900 51.5	57.7	59.4	59 • 3	67	63. G	63.3	63.3	63.9	63.9	6	63.9	63.9	63.9	63.9	63.9
6E 15u3 ±3•4	50.3	61.3	62 • 0	62.6	65.6	65.9	65.9	66.6	66 • €	66.6	55 • 6	66.6	66.6	66.6	66.6
55 1253 €9•2	79.7	57.1	92.3	83.6	£5. 9	86 • 2	87.2	87.9	87.9	84.5	£9.5	88.5	98.9	87.2	89.2
GE 10001 69.8	42.3	93.0	A4 . y	ê5.6	°8.5	88.9	87.8	90.A	90.8	91.5	71.5	91.5	91.8	92.1	92.1
UE 9001 70.8	03.9	34.7	96.7	87.5	90.5	97.8	91.8	92.9	92.8	91.4	95.4	93.4	93.8	94.1	94.1
9531 70.8	63.9	35.9	A7.7	83.5	91.5	91.8	92.8	93.8	93.8	94.4	94.4	94.4	94.8	95.1	95.1
55 7:31 71.1	34.6	67.2	89.2	69.8	92.8	93.4	95.1	96.1	96.4	57.	97.4	97.4	97.7	99.0	96.0
65 6331 71.1	24.6	97.2	89.5	90.2	93.1	93.8	95.4	96.4	96.7	97.4	97.7	97.7	99.0	98.4	98.4
ηΕ 160 71•1	44.6	97.2	99.5	97.2	93.1	93.8	95.7	36.7	97.C	97.7	96.0	99.3	98.4	58.7	98.7
οξ 4001 71•1	14.6	97.2	89.9						37.4						
56 4Ca 71+1	*4.5	87.2	99.8	90.5	73.4	94 • 1	96.1	37.0	97.4	90.7	93.4 98.4	98.4 98.4	98.7 98.7	99.0	99.0
	-		-	90.5	93.4	94.1	96.1	97.7						99.0	99.0
- 4€ 202 71.1 5 20 21.1	14.0	37.2	59 . d	90.5	93.4	94.1	96.1	97.J	97.4	93.7	73.4	98.4	99.5	99.3	99.3
UE 1001 71:1	4.6	37.2	39.4	91.5	93.4	94.1	76.1	97.0	97.4	95.7	98.4	98,4	99.3	99.7	99.7
6° 171.1	94.6	37.2	99.5	90.5	93.4	94.1	96.1	97.3	97.4	90.5	78.4	98.4	99.3	99.7	100.0
	• • • • • •	• • • • • • •	• • • • • •	• • • • • • •	• • • • • •	• • • • • •	• • • • • • •	• • • • • • •	• • • • • •	• • • • • •	• • • • • • •	• • • • • • •	• • • • • •	• • • • • • •	• • • • • • • • • • • • • • • • • • • •

SLORAL CLIMATCLOGY PRAGON USAFETAC AIR GEATHER SERVICEMMAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CELLING VERSUS VISIBILITY FROM FOURLY OBSERVATIONS

			R: 22113					-				MANTH		HOURS	(LST):		100
	 LIMG	• • • • •	• • • • • • • •	•••••	• • • • • • •	• • • • • • • •		vislell					• • • • • • •	• • • • • • •	• • • • • • •	• • • • • •	•••••
FE	F. T.	i 51 l 101	6E 50	6: +3	GE 5 j	GE 4 h	ι <u>∈</u> 4 δ	6 E	GE 24	GE 20	GE 16	46 17	6f 13	GE q	Ģ€ S	GE 4	GE O
i.o (CFir	1 15.2	14.3	48.7	17.0	19.4	19.7	19.7	19.7	19.7	19.7	12.7	19.7	19.7	19.7	19.7	19.7
GE.	achuc	i 16.	19.4	49.7	20.1	20.4	23.8	20.6	23.8	20.8	20.8	27.2	20.8	23.9	9.6	20.8	20.6
		1 16.		19.7	76.1	27.4	20.8	20.8	23.8	20.8	20.8	27.9	20.4	20.8	20.8	20.8	75.€
ίĒ	16055	1 :6.	19.4	19.7	20.1	20.4	20.6	27.8	20.8	20.8	20.8	2 " • 4	79.8	20.0	20.8	20.8	20.8
(, r	14700	1 16.	14.4	17.7	26.1	27.4	26.8	27.8	20.8	£3.9	20.5	27.9	20.6	23.3	2J.8	20.8	20.8
of.	11000	1 16.	7 19.4	19.7	20 • 1	27.4	24.6	20.8	2 J • H	27.8	20.8	27.4	20.9	20.6	22.8	20.8	20.8
u r	12700	1 25.6	29.1	29.4	29.8	33.1	3C • 8	30.8	31.1	31.5	31.4	31.4	21.5	31.5	*1.5	31.5	31.5
U.S.	9 130	1 25.6	29.1	27.4	29.0	37 - 1	30.8	37.9	31.1	31.5	31.5	31.5	71.5	31.5	31.5	31.5	31.5
, c	8000	1 25.6	29.1	20.4	29.8	37.1	30 + 6	30.9	31.1	31.5	71.5	31.5	11.5	31.5	71.5	31.5	31.5
Ur	7000	1 25.6	29.1	29.4	29.8	37.4	30.8	30.8	31.1	31.5	31.5	31.5	- 31.5	31.5	31.5	31.5	31.5
LΕ	6000	2	29.1	29.4	29.8	3 € • 1	"∪.8	30.8	31.1	31.5	71.5	31.5	31.5	31 • 5	31.5	31.5	31.5
. E	sir ye	26.6		37.4	30 • 8	31.1	21.8	31.8	32.2	32.5	72.5	37.5	32.5	32.5	32.5	32.5	32.5
G E	41.3	1 27.5	74	30.8	31 - 1	31.5	72.2	32.2	32.5	32.3	72.9	37.7	32.9	32.9	32.9	32.9	32.9
υť	4100	37.5	34.3	34.6	35 6	36 . 2	77. C	37.0	37.4	57.7	37.7	37.7	77.7	37.7	37.7	37.7	37.7
O.F	3503	1 32.3	35.6	36.0	37.0	37.4	36.4	38.4	38.8	37.1	79.1	37.1	37.1	32.1	39.1	37.1	39.1
l» į	31 00	1 36.0	9.2+1	4.5.45	41.5	41.7	42.9	42.9	43.3	43.6	43.6	47.6	43.0	43.5	43.6	43.6	43.6
0.5	26.75	40.1	1 73.6	54.3	55.4	55.7	57.1	57.4	58.5	58.8	59.8	53.4	59.8	58.8	58.8	58.8	58.8
u f	27.77	47.9	19.7	56.1	57.4	57.8	54.2	59.5	60.9	01.2	61.0	61.2	11.2	61.2	51.2	01.2	61.2
L.F		52.6		50.5	6).4	61.2	63.0	63.3	64.7	65.1	45.1	65.1	55.1	65.1	65.1	65.1	65.1
, r	1163	1 55.5	62.3	62.6	64 • U	64.4	66.1	66.4	67.5	68.2	68.2	60.2	59.2	63.2	63.2	69.2	66.2
υĽ		1 67.F		79.6	81.7	62 × 0	5.5	85.8	87.5	68.9	93.5	97.7	90.3	93.7	90.7	97.7	90.7
t. E	1000	1 64.5	77.9	01.	83.7	64.1	٠7.5	87.9	89.6	91.0	92.0	90.0	92.4	92.7	92.7	92.7	92.7
٠.	9.10	1 69.2	91.0	67.5	84.5	85.1	88.6	88.9	91.0	97.4	93.4	97.4	73.A	94.1	94.1	94.1	94.1
C, F	300	1 60.	11.5	H 2 . 4	95	d5.6	35.3	89.6	91.7	¥3.1	C4 . 1	99.1	54.5	74.6	94.8	94.8	94.8
5.5	7.20	1 60.5	92.7	54.1	97.2	08.2	91.7	92.0	94.1	95.8	97.2	97.2	37.6	97.9	97.9	97.9	97.9
ı, F	t n	1 63.0	9 61.1	94.4	97.9	88.4	92.4	92.7	94.8	96.5	97.9	9.0	93.3	98.0	96.6	99.6	98.6
CΞ	154	1 60.9	03.5	84.4	67.7	ы, с. э	92.4	92.7	94.8	36.0	98.3	90.3	78.6	99.3	99.1	99.0	99.0
. 5	6	1 62.	7 (3.3	84.4	97.9	88.7	92.4	72.7	94.3	76.9	99.3	96. 1	93.6	99.0	99.0	97.0	99.0
6.6	700	1 69.		84.4	87.9	89.,	92.4	92.7	94.8	75.7	99.3	22.1	2.6	99.0	99.0	99.0	99.0
, c		67.		64.4	B7 • 9	63.9	42.4	92.1	94.8	96.9	78.3	4° 3	98.6	99.]	99.0	99.0	99.0
G F		69.		84.4	27.9	00.	52.4	92.7	94.8	96.9	99.3	90.3	99.6	99.0	99.3	49.3	99.7
ŗ		L 60.0	0.5.0	94.4	61.9	83.3	92.4	92.7	94.8	96.9	78.3	40.7	93.6	99.0	99.3		106.6

GLOBAL CLIMATOLOGY BRANCH USAFETAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

ATR WEATHER SERVICE/MAC

PERIOD OF PECORD: 77-86 STATION NUMBER: 201130 STATION NAME: MURMANSK USSR MONTH: OCT FOURS(LST): 2100-2300 ILING VISIBILITY IN HUNDREDS OF METERS CEILING GE 24 3E 90 GL تت GΕ FEET | 162 32 13 5.4 4.6 2) 16 1.2 c 4 3 22.1 NO CETE | 19.1 21.1 21.1 22.1 23.1 23.1 23.1 23.1 23.1 27.1 6E 135371 25.1 6E 160001 20.1 23.1 23.1 23.1 23.1 23.1 23.1 23.1 23.0 21.1 21.3 22.1 23.1 23.1 23.1 23.8 21.1 21.0 22.1 23.1 23.1 23.1 6E 14703| 27.1 6E 12503| 23.1 27.1 21.1 23.1 23.1 23.1 23.1 23.1 23.1 23.1 23.1 3 ~ . 4 3 ~ . 4 3 ~ . 4 21.1 29.3 30.4 32.4 UE 100001 26.7 28.1 23.7 30.0 30.0 33.4 30.4 ₹0.4 30.4 33.4 30.4 90001 26.7 8001 26.7 7001 26.7 27.7 30.4 30.4 27.0 30.0 30.0 30.4 39.4 30.4 ti E 28.1 28.7 30.4 30.4 28.1 28.7 29.0 ?C.O 30.0 30.4 30.4 30.4 70.4 37.4 30.4 30.4 30.4 30.4 30.4 30.4 30.4 úΕ 28.1 28.7 29.3 ir.p 30.0 30.4 shool 79.7 29.5 29.7 32.0 11.0 31.0 31.4 45001 28.7 40001 35.6 29.7 30.0 37.3 31.0 32.0 39.3 32.0 32.3 39.6 37.3 32.3 39.6 32.3 32.3 32.3 39.6 G.F 33.7 32.3 32.3 32.3 39.6 39.6 35.6 39.6 39.6 GE 38.4 35031 38.1 39.3 41.4 41.9 41.9 41.9 41.9 41.3 42.6 44.9 44.9 45.2 45.2 45.2 45.2 45.2 45.2 45.2 20001 52.1 54.8 55.1 rg.4 50.4 58.4 58.4 ь£ 57.8 57.9 58.1 58.1 53.4 58.4 58.4 56 . 4 56.5 2100| 56.8 1810| 57.8 59.7 67.4 63.4 37.1 61.4 61.7 62.7 63.D 63.0 63,4 63.4 63.4 63.4 63.4 62.7 51.1 63.7 64.0 67.0 67.3 64.4 €4.4 6F 62.4 63.7 63.7 64.4 64.4 64.4 64.4 67.3 67.3 67.3 67.3 67.3 67.3 65.3 66 . 7 67.3 46.7 1. F 17601 73.9 S E 93.9 51.9 84.2 55.8 87.8 89.4 89.4 90.4 91.4 91.4 91.7 91.7 91.7 91.7 91.7 SE €1.5 €2.2 85.8 97.5 89.4 90.1 92.7 92.7 97.4 93.1 93.1 93.1 82.3 85.1 98.8 90.4 91.7 93.1 93.1 AJC1 74.9 33.5 35.3 99.4 91.1 92.4 73.4 93.7 93.7 95.7 93.7 93.7 7031 76.2 6031 76.6 43.6 94.2 85.3 85.3 87.3 43.4 21.4 92.1 93.1 95.4 95.7 95.7 95.7 95.7 88.1 96.0 5001 76.6 91.7 92.4 96.0 94.7 96.4 6 E 4001 75.€ 7001 76.6 84.5 36.5 86.0 91.4 92.4 93.7 95.0 95.0 96.7 07.7 97.7 99.0 98.0 98.0 98.0 98.0 98.3 98.0 84.5 36.5 90.4 92.4 96.7 98.C 98.3 98.3 86.3 23.3 98.3 a4.5 99.0 47.4 99.3 15.5 **ά**δ • δ 92.4 96.7 100.0 1.71 76.6 88.8 84.5 86.5 90.4 92.4 93.7 95.0 96.7 98.5 93.3 99.3 99.7 99.7 [s F 11 76.6 F14.5 86.5 97.4 99.7 99.7 100.0 88.8 92.4 93.7 95. n 96.7 98.5 C 0 ... 38.3 99.3

TOTAL NUMBER OF OBSERVATIONS:

303

GLORAL CLIMATOLOGY PRANCH USAFETAC AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CETLING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 221130 STATION NAME: MURMANSK USSR PETITO OF PECORD: 77-86 MONTH: CCT HOURS(LST): VISIBILITY IN HUNDREDS OF METERS GE GE GE GE GE 4G 32 24 20 16 911 1120 IN 1 GT GE GE GΕ GL. GE 9.3 #C 4 6 10 υ 1 160 6 i 12.7 18.1 NO CETE 1 15.F 16.9 17.2 17.5 17.7 18.0 18.0 18.0 18.0 18.0 18.1 18.1 18.2 19.7 19.7 19.5 19.8 19.5 19.9 19.9 65 20°Cal 17.3 18.5 18.9 19.2 12.4 15.7 19.7 19.7 19.7 GE 180001 17.3 GE 160001 17.3 GE 140001 17.3 GE 120001 17.3 17.7 19.7 19.8 19.8 19.8 19.9 19.9 19.5 19.4 19.4 19.7 19.7 19.7 19.7 18.5 16.5 18.9 14.2 19.4 19.7 19.7 19.7 19.7 19.7 19.8 19.8 19.8 19.9 19.9 18.9 19.4 19.7 19.7 14.7 19.7 19.7 19.2 19.R 19.8 37.2 37.2 37.2 or 100001 25.8 28.1 28.4 28.9 29.2 29.7 29.7 29.9 33.2 +0.2 30.3 30.3 ₹0.3 30.3 30.3 6E 97301 25.E 6E 87001 25.P 6E 77001 25.8 6E 67001 25.9 29.2 29.7 29.7 29.9 30.2 70.2 70.2 30.3 30.3 30.3 30.3 30.3 30.3 28+1 28.4 28.9 30.3 28.4 28.4 28.5 28.1 28.1 26.9 30.3 29.7 30.3 30.3 30.3 30.3 30.3 28.2 3D • 3 30.0 30.3 30.4 30.4 36.4 UE 5000 27.1 UE 4500 28.0 UE 4500 22.0 UE 3500 37.6 29.5 71.6 21.7 31.7 31.7 31.8 29.5 70.3 31.1 31.6 21.6 33.6 31.1 31.3 32.5 37.0 37.6 72.6 72.7 37.2 10.4 3 C . F 31.5 32.5 32.7 31 - 3 32.1 32.3. 32.7 32.1 35 • 6 37 • 4 35.8 37.6 37.2 34.5 34.9 36.4 36.4 36.8 37.0 37.2 37.2 39.3 77.0 36.2 16.9 36.6 36.3 38.6 3: 0-1 40.5 41.1 41.2 41.A 41.6 41.A 41.9 41.9 41.9 42.0 42.0 25001 48.5 25001 50.9 18001 52.3 50.7 55.8 58.8 57.4 54.1 55.3 57.6 57.4 58.0 58.4 58 - 6 50.7 59.8 58.8 58.B 58.9 61.7 57.0 58.4 61.9 6 E 56.3 £7.7 56.3 59.9 60.4 61.6 61.5 61.6 61.8 61.8 61.8 61.8 59.7 62.3 67.6 63.2 43.4 53.4 63.4 63.5 'nΕ 61.9 63.1 61.5 66.7 77.3 61.4 13.1 64.9 84.5 66.4 62.7 64.5 66.1 86.5 66.3 66.4 66.4 66.5 81.7 53.7 ė. . i 57.7 95.6 69.P 90.8 93.9 91.1 91.1 10001 69.2 79.7 61.0 83.6 64.6 66.6 87.4 33.6 90.4 91.0 8501 63.7 8501 73.2 10.7 11.3 62.4 84 + 7 65 + 5 91.0 92.1 93.0 92.3 92.4 92.4 92.5 t, € 62.0 62.5 85.6 €7.6 88.6 89.9 91.2 91.6 66.5 89.4 92.6 S E 26.7 90. 3 92.1 6661 71. 54.3 69.6 96.8 91.5 93.2 14.7 95.4 95.3 96.3 96.1 96.1 96.2 71.1 60.7 45.1 94.1 96.6 96.6 G.F 92.8 64.4 07.5 91.6 91.9 93.6 25.9 25.3 96.4 96.5 4001 71.1 7001 71.2 7001 71.2 23.6 34.1 69.2 91.5 91.7 04.4 3.60 97.3 97.4 97.5 97.6 97.6 ιL 66.0 96.0 92.6 91.4 97.4 97.5 67.1 83.2 84.6 88 • 2 69.4 92.8 94.7 96. ! 97.2 97.6 97.8 97.9 97.9 98 . U 69.5 98.8 41 84.9 88.2 91.7 94.7 97.7 97.7 98.4 98.7 98.7 69.5 92.9 99.2 99.8 61 71.2 #3.2 92.9 94.8 97.3 97.5 97.7 98.4 99.0 99.2 100.0

GLOBAL CLIMATOLOGY BRANCH USAFETAC AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CFILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 221130 STATION NAME: MURHINSK USSR

PERIOD OF PECORD: 77-86

PONTH: NOV POURS(LST): 0000-0200

													FUNTE				0000-02	
	Lind					• • • • • • •					HUNDRED			• • • • • • •	• • • • • •	• • • • • •	• • • • • • •	• • • • • • • •
I		ı	G I	GE	GE	١E	32	ĿΕ	GE	GE	GE	GE	٦.٤	5E	GE	GΕ	GE	GF
FE	ΕT	i	167	9.5	83	5 u	4 0	40	32	24	20	16	1.7	10	8	5	4	٥
		• • •		• • • • • •	• • • • • •	• • • • • •				• • • • • •		• • • • • •		• • • • • • •	• • • • • •	• • • • • •	• • • • • •	• • • • • • • •
٠.	CETI	ı	20.6	23.9	24.6	24.9	25.6	26.6	26.0	26.6	26.6	76.6	21.6	26.6	26.6	76.6	26.6	26.6
• ()	CLIL	٠,	٠.٠	23.9	24.6	47.7	47.0	20.0	20	20.0	20.0	.0.0	2.	20.0	20.0	ζ B • U	2010	20.0
úĘ	2000	130	21.5	24.6	25.3	25.6	26.3	26.6	26.6	27.3	27.3	27.3	27.2	21.3	27.3	27.3	27.3	27.3
GΕ	1800	ic!	21.5	24.6	25.3	25.6	26.3	26.6	26.6	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3
υĘ	1600	:01	21.5	24.6	25.3	25.6	26.3	26.6	26.6	27.3	27.3	27.3	27.5	27.3	27.3	27.3	27.3	27.3
GΕ	1400	11	21.5	74.6	25.3	25.6	26.3	26.6	26.6	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3
GΕ	1270	10	21.5	24.6	25.3	25.6	26.3	26.6	26.6	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3
i. F	: 00	n I	29.1	73.6	34.6	35.6	36.7	27.7	37.7	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1
GΕ			29.1	33.6	34.6	35.6	36.7	37.7	37.7	39.1	39.1	39.1	30.1	39.1	39.1	39.1	39.1	39.1
G E			29.1	33.6	34.6	35.5	36.7	37.7	37.7	39.1	39.1	39.1	30.1	39.1	39.1	₹9.1	39.1	39.1
6.5			29.1	33.6	34.6	35.6	36.7	37.7	37.7	39.1	39.1	39.1	30.1	37.1	39.1	79.1	39.1	39.1
GΕ			29.1	33.6	34.6	35 • 6	35.7	37.7	37.7	39.1	39.1	39.1	37.1	39.1	39.1	39.1	39.1	39.1
	٠.,	, , ,	2	. 3.0	34,0	3.3 4 0	3711	3141	3	.,		. / • •	- ••		• • • •	,, 	3.44	3
GΕ	ن دي	10	, 9 . P	34.3	35.3	36.7	37.7	38.8	39.8	40.1	40.1	40.1	47.1	43.1	40.1	43.1	43.1	46.1
G E	456	.31	30.4	34.9	36	37.4	33.4	39.4	39.4	49.8	40.8	40.8	47.8	43.6	43.8	40.8	40.8	4 C . 8
υF			33.2	23.4	37.4	40.5	41.9	43.3	43.3	44.6	44.6	44.6	44.5	44.6	44.6	44.6	44.6	44.6
ī: F	3 5	:5 L	34.6	19.3	47.0	42.2	43.3	44.6	44.6	46.0	46.0	46.0	46.7	46.0	46.0	46.0	46.n	46.0
G E	31.0	e i	36.7	41.9	42.9	44.3	45.3	46.7	46.7	48.1	40.1	48 • 1	49.1	44.1	49.1	48.1	48.1	48.1
ı, F	200	16.4	45.7	11.9	53.3	55.0	56.4	57.6	59.5	59.9	59.9	59.9	52.9	57.9	60.2	60.2	67.2	6 U • 2
0.5			47.1	56.4	58.1	59.9	61.2	62.6	63.3	64.7	65.1	65.1	65.1	65.1	65.4	65.4	65.4	65.4
υĒ			50.2	57.4	59.2	6d • *	62.3	63.7	64.4	65.7	66.1	66.1	66.1	56.1	66.4	66.4	66.4	66.8
6.5			51.9	60.4	51.6	63.3	64.7	66.1	66.8	68.2	68.5	68.5	66.5	68.5	68.9	68.9	69.9	69.2
υE			65.6	73.2	74.	76.8	79.9	52.0	83.5	26.2	86.5	P6.9	86.9	97.2	67.5	97.9	87.9	88.2
U /.	*	- 1	0.0.0	1.002	14.	10.5	, , , ,	92.0	67.5	20.2	00+)	~0•7	31	31.42	5143	.,,,,	0,4,	1,000
GΕ	1 C	31	61.2	71.3	75.4	14.2	P 1 . 3	A 3. 4	84.8	88.2	48.5	48.9	9.28	89.3	89.6	93.3	90.0	90.3
G C	e t	711	+1.º	71.3	15.4	7e . L	81.3	43.4	84.8	88.2	88.6	P8.9	89.9	39.3	89.6	93.0	40.0	90.3
6.5	F.	.91	61.2	7:.6	75.5	78.9	62.0	84.1	85.5	88.9	69.3	89.6	80.6	93.0	90.3	90.7	97.7	91.0
(, ₣	7	:01	61.6	73.4	77.5	a.cs	83.7	86.2	87.5	91.3	91.7	02.4	97.4	92.7	93.1	93.4	93.4	93.8
υĒ	4 () (·)	61.6	73.4	77.5	لت 🛦 8	64.1	86.5	87.9	92.C	92.7	03.4	97.0	94.1	94.5	C4.8	94.8	95.2
6 E		r t	61.6	73.4	17.9	61.3	64.4	₽6.9	88.2	92.4	93.1	03.8	54.1	94.5	94.8	95.2	95.2	95.5
5 E			61.6	73.7	78.2	81.7	85.5	P7.9	89.3	94.1	95.2	95.0	96.5	96.9	97.2	97.6	97.6	97.9
6 E			61.6	12.7	70.2	81.7	65.5	£7.9	89.3	94.5	95.5	76.2	95.9	91.2	97.6	97.9	97.9	98.3
6 E			61.6	73.7	70.2	91.7	65.5	87.9	89.3	94.8	95.8	96.5	97.2	97.6	99.0	99.3	99.3	99.7
u t (+F			61.6	73.7	78.2		£5.5	87.9 87.9		94.8	95.8	96.5	97.2	97.6	99.0	99.3	99.3	100.0
L. L		ne I	C 1 + C	13.1	1 7 . 4	£1.7	£ 5 • 5	e 7. 9	89.3	74.5	70.8	40.5	9 ' • 2	71.6	44.0	44.7	77.3	100.0
6 E		:1	61.6	73.7	18.2	81.7	85.5	٤7.9	89.3	94.5	95.8	96.5	97.2	97.6	99.0	99.3	99.3	100.0

GLUBAL CLIMATCLOGY BRANCH PERCENTAGE FREQUENCY OF OCCURPENCE OF CETLING VERSUS VISIBILITY USAFLTAC FROM FOURLY OBSERVATIONS AIR WEATHER SERVICE/HAC

	ն1 160	ს£. იქ	GF	• • • • • • •												OC
IN [160						AIZIBIL					• • • • • • •		• • • • • •	• • • • • • •	• • • • • • • •
EET	160		(.)	GE	GE	65	GE	GF.	GE.	GE	SE	GL	GE	GE	GE	GΕ
• • • • • • • • •			du	67	4.8	4	32	24	2.0	16	12	1 J	8	5.	4	٥
CLIL I					_											
CLIL I .								~		25. 2	25.2	35 3	25.5	26.6	25.5	21. 1
	23.0	32.1	23.4	23.4	23,4	23.8	24.1	24.5	24.8	25 • 2	25.2	25.2	23.5	25.5	25.5	25.5
200001	20.3	22.4	23.3	23.8	23.9	24.1	24.5	24.8	25.2	25 • 5	25.5	25.5	25.9	25.9	25.9	25.9
160001	20. ?	22.4	23.3	23.5	23.4	24.1	24.5	24.8	25 • 2	25 • 5	25.5	25.5	25.9	25.9	25.9	25.9
ibrual:	20.3	22.4	23.5	23.8	23.8	24.1	24.5	24.8	25.2	25.5	56.6	25.5	25.9	25.9	25.9	25.9
140.001	27.3	22.4	23.8	23.6	23.5	24.1	24.5	24.8	25.2	25.5	25.5	25.5	25.9	25.9	25.9	25.9
izhubi :		22.4	23.5	23.8	23.8	24.1	24.5	24.8	25.2	25.5	2 * • 5	25.5	25.9	25.9	25.9	25.9
ichabi :	ng.n	12.4	34.1	34.1	34.1	34.5	35.5	36.6	37.2	37.6	37.6	37.6	37.9	37.9	37.9	37.9
90001		32.4	34.1	34 • 1	34.1	34.5	35.5	36.6	37.2	37.6	37.6	37.6	37.9	37.9	37.9	37.9
81301		72.4	34.1	34 - 1	34.1	34.5	35.5	36.6	37.2	77.6	37.6	37.6	37.9	37.9	37.9	37.9
7:301		32.4	34.1	34 • 1	34.1	74.5	35.5	36.6	37.2	37.6	37.6	17.6	37.9	37.9	37.9	37.9
60001		32.4	34.1	34 • 1	34.1	34.5	35.5	36.6	37.2	77.6	37.6	37.6	37.9	37.9	37.9	37.9
0.301	24.3	32.4	34.1	34 4 1	34.2	34.5	35.5	30.0	31.2	. / • 6	3 ' • 6	31.0	3749	31.7	3/17	2107
50001		23.4	35.2	35 . 2	35.2	35.5	36.6	37.6	38.3	38 . 6	30.6	38.6	39.0	79.0	39.0	39.∪
45631		73.8	35.5	35 ∙ 5	35.5	35.9	36.9	37.9	38.6	39 • €	30.0	39.0	39.3	39.3	39.3	39.3
41, 301		35.5	37.2	37.2	37.	37.6	38.6	39.7	40.3	40.7	40.7	46.7	41.0	41.3	41.0	41.0
35001	32.8	30.6	38.3	36.6	38.6	39. C	40.0	41.0	41.7	42.1	47.1	42.1	42.4	42.4	42.4	42.4
30001	34.5	39.J	43.7	41.3	41.3	41.4	42.4	43.4	44.1	44.5	44.5	44.5	44.9	44.8	44.8	44.8
25,301	42.8	49.3	50.7	51.0	51.4	52.1	53.1	54.5	55.2	55.5	55.5	55.9	56.2	56.2	56.2	56.2
25 30 1	46.2	52.4	54.1	54.5	54.8	55.5	56.6	57.9	58.6	59.0	52.2	59.3	60.3	60.0	60.0	60.3
ieuni i	47.9	54.1	55.9	56 • 6	56.9	57.6	59.6	63.0	60.7	61.C	61.7	61.4	62.1	62.1	62.1	62.4
15001		5.7.6	59.3	62.3	67.7	61.7	62.8	64.1	64.8	65.2	65.7	65.5	66.2	66.2	66.2	66.6
15651		69.3	71.0	73.4	74.1	76.2	77.9	82.1	83.8	94.1	54.1	F4 . 8	85.5	85.5	85.5	85.9
11,061		73.4	75.2	77.6	78.6	A1.0	82.8	86.9	å8.6	89.0	87.3	59.7	90.3	00.3	97.3	90.1
1.231		73.4	75.2	77.6	78.6	81.0	83.1	B7.6	89.3	89.7	82.7	93.3	91.0	91.0	91.0	91.4
8031		73.8	75.5	77.3	79.3	91.4	83.4	87.9	89.7	90.0	90.0	90.7	91.4	91.4	91.4	91.7
7321		74.1	76.9	79.3	8 7. 7	83.1	95.9	90.7	92.4	93.1	93.1	93.8	94.5	94.5	94.5	94.8
5801		74.5	77.2	79.7	81.7	54.1	86.9	91.7	93.4	94.1	94.1	94.8	95.5	95.5	95.5	95.9
2631	04.1	14.5	11.2	17.1	0101	5401	00 4 7	, , , ,	73.4		74.1	74.0	7,1,	73.3	75.5	73.7
538] -		75.5	79.3	Sp. 7	62.8	55.2	87.9	92.3	94.5	95.2	95.2	95.9	96.6	96.6	96.6	96.9
4 72		75.5	78.3	AJ.7	82.2	85.2	87.9	92.8	94.5	75.5	95.5	95.2	96.9	96.9	96.9	97.2
7021		75.5	79.3	83.1	32.3	85.2	67.9	93.4	¥5.5	76.9	61.0	97.6	98.3	98.3	98.3	98.6
2001		75.5	78.3	80.7	8.26	85.2	87.9	93.4	¥5.5	96.9	94.0	97.6	98.6	99.0	99.0	99.3
1001	64.1	75.5	19.3	80.7	82.8	35.2	87.9	93.4	95.5	96.5	94.3	57.6	98.6	99.0	99.0	100.0
11	64.1	75.5	78.3	93.7	62.8	85.2	87.9	03.4	95.5	96.9	96.0	97.6	98.6	99.0	99.0	100.0

AIR MEATHER SERVICE/MAC

GLOBAL CLIMATGLOGY UP ANCH PERCENTAGE FREQUENCY OF OCCURPENCE OF CEILING VERSUS VISIBILITY USAFETAG FROM HOURLY OBSERVATIONS

STA	TION N	UMREP:	201136	STATI	CN NAME	: MURM	ANSK US:	S F				PERIOD HINOM	OF PEC		-66 (LST): 1	J6ეუ- <u>0</u> 6	00
	LING	• • • • • •	• • • • • •	• • • • • • •	• • • • • •	• • • • • • •				HUNDR ED:			• • • • • • •	• • • • • • •	• • • • • • •	• • • • • •	• • • • • • • •
1		6.1	GE	G F	GE	GE	65	GE	GE	GE	GE	ÖΕ	GΕ	ΘE	GE	GE	GE
FE		160	າ ເ	90	έc	્ત ક	40	32	24	20	16	12	10	- L	5	- 4	0
	• • • • • •		• • • • • •		• • • • • •	• • • • • • •		• • • • • • •		• • • • • • •				• • • • • • •	• • • • • •		• • • • • • • •
+0	CEIL	13.6	20.3	20.7	21.4	.2.1	22.4	22.8	23.8	24.1	24 - 1	24.1	24.1	24 • 1	24.1	24.1	24.1
٠F	100001	23.3	22.1	22.4	23.1	23.3	24.1	24.5	25.5	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9
	10001		22.1	22.4	23.1	23.3	24.1	24.5	25.5	25.9	25.9	25.6	25.9	25.9	25.9	25.9	25.9
	16 .031		22.1	27.4	23.1	23.3	24.1	24.5	25.5	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9
	147001		22.1	22.4	23.1	21.8	24.1	24.5	25.5	25.9	25.9	25.0	25.9	25.9	25.9	25.9	25.9
	120001		22.1	22.4	23.1	23.8	24.1	24.5	25.5	25.9	25.9	21.9	25.9	25.9	25.9	25.9	25.9
i 5	100001	26.9	29.3	33.0	31.4	32.1	32.6	33.1	34.8	35.2	35.2	31.2	35.2	35.2	35.2	35.2	35.2
F	92001		27.3	37.3	31.4	32.1	32.8	33.1	34.9	35.2	35.2	35.2	35.2	35.2	35.2	35.2	35.2
E	80001		29.3	30.0	31.4	32.1	32 - 8	33.1	34.8	35.2	35 • 2	35.2	35.2	35.2	35.2	35.2	35.2
Ē	7:001		29.3	37.7	31.4	32.1	32.8	33.1	34.8	\$5.2	75.2	35.2	35.2	35.2	35.2	35.2	35.2
Æ	60901		29.3	30.3	31.4	32.1	32.8	33.1	34.8	35.2	35 + 2	35 • 2	35 - 2	35.2	35.2	35.2	35.2
, E	50001	27.9	34.3	31.3	32.4	33.i	33.8	34.1	35.9	36.2	36.2	35.2	36.2	36.2	36.2	36.2	36.2
·Ε	45001		3C - 3	31.3	32.4	33.1	33.8	34 . 1	35.9	36.2	76 . 2	36.2	36.2	36.2	36.2	36.2	36.2
Ē	4"001		32.4	33.1	34.8	35.5	36 • 2	36 • 6	38.3	38.6	38 • 6	30.6	38.6	39.5	38.6	38.6	38.6
E	35561		53.8	34.5	36.4	36.9	37.6	37.9	39.7	40.0	40.C	40.1	43.0	40.5	43.5	47.0	40.0
E.	30001		35.9	36.6	36.3	39.0	39.7	47.0	41.7	42.1	42.1	47.1	42.1	42.1	42.1	42.1	42.1
ιĒ	10025	41.7	40.6	47.2	45.3	57.7	51.7	52.4	54.1	54.9	54.8	54.8	54.8	54.8	55.2	55.2	55.2
£.	21.001		45.3	49.7	51.7	53.1	54.5	55.2	56.9	27.6	57.6	57.6	57.6	57.6	57.9	57.9	57.9
Ε.	18551	45.9	51.0	57.8	54 . 5	56.2	57.6	59.3	60.5	63.7	60.7	69.7	60.7	60.7	61.3	61.0	61.0
ı E.	19601	48.3	54.9	56.6	58.€	60.3	61.4	67.1	63.8	64.5	64.5	64.5	64.5	64.5	64.8	64.8	64.8
, -	1260]	57.2	67.9	70.7	73.4	75.2	77.2	90.0	83.1	84.8	95.5	85.5	85.5	85.5	A5.9	85.9	85.9
Ε	10001	59.3	70.3	73.4	76.2	77.9	e û • u	e · . 1	96.2	87.9	28.6	80.6	89.6	88.6	99.0	89.0	89.0
, E	9001	63.7	71.7	74.+	77.6	79.5	91.4	50.5	# 7 · 6	69.3	90.0	9~.^	90.0	99.7	93.3	90.3	96.3
, Ę	9001	61.7	72.8	15.9	78 • 6	67.7	= 2 . 5	8 9	99.0	90.7	91.4	91.4	91.4	91.4	91.7	91.7	91.7
, ξ	7301	67.1	75.4	16.6	70.5	81.4	23.4	66.6	93.5	91.7	72.4	57.8	92.8	92.8	93.1	93.1	93.1
, C	6371	62.1	74.1	17.2	PU}	83.1	e4.1	87.6	71.0	92.8	93.4	9 . " "	93.8	93.9	94.1	94.1	94.1
Æ	5001	62.4	74.5	17.9	80.7	82.4	54.8	88.3	91.7	93.8	94.8	95.5	95.9	95.9	96.2	96.2	96.2
, 5	4831	67.4	74.5	17.9	82.7	83.i	95.9	80.7	92.8	95.2	96.2	96.7	97.2	97.2	97.6	97.6	97.6
ıΤ	1001	62.4	74.5	77.7	83.7	83.1	۶5,9	89.7	93.1	95.5	96.6	97.2	97.6	97.6	97.9	97.9	97.9
ıΕ	2531	62.4	14.5	77.7	84.7	83.i	85.9	89.7	93.1	95.5	96.6	97.2	97.6	97.9	98.3	98.3	98.3
٦ د	1 30	62.4	74.5	17.9	80.7	83.1	95.9	89.7	93.1	95.5	76.E	97.2	97.6	97.9	99.0	99.0	99.3
3 (:1	62.4	74.5	77.9	83.7	83.1	=5.9	89.7	93.1	95.5	76.6	97.2	97.6	97.9	99.0	99.0	100.0

GEORAL CLIMATOLOGY PRANCH AIR WEATHER SERVICE/MAG

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM FOURLY OBSERVATIONS

STATION NUMPER: 201130 STATION NAME: MURMANSK USSR

PERIOD OF RECORD: 77-86 HOWIH: NOV HOURS(LST): 0900-1100

VISIBILITY IN MUNDREDS OF METERS
GE GE GE GF CEILING) st G E 32 GE 24 GE 5 GE G£ FEET | 160 20 จะ 1, 8 30 4 C 16 10 G 6.3 49 21.0 21.0 NO CEIL 1 16.5 17.5 19.6 20.3 29.3 21.0 21.3 18.2 19.0 GE 200491 18.9 19.9 23.0 23.0 23.7 24.1 21.0 22.3 22.3 23.7 23.7 21.0 23.7 23.7 23.7 24.1 24 • 1 24 • 1 24.1 24.1 24.1 17.9 22.3 22.3 23.0 24.1 24 • 1 24 • 1 GE 167001 18.9 GE 147001 18.9 22.3 23.0 23.0 19.9 22.3 22.3 23.0 21.0 55 120001 13.9 21. 23.0 23.0 23.7 23.7 24.1 24.1 29.9 33.7 33.7 34.4 GE 100001 27-1 24.5 31.6 31.6 32.6 32.6 33.7 74.0 34.4 34.4 84.4 34.4 34.4 28.5 34.0 34.4 34.4 9000] 27.1 9000] 27.1 7000] 27.1 33.7 34 . 4 34 . 4 34.4 34.4 34.4 31.0 31.6 32.6 32.6 29.9 31.6 32.6 32.6 33.7 33.7 34.C 34.4 34.4 34.4 34.4 ЬE 29.9 31.6 31 en 32.6 32.6 33.7 53.7 34 . 4 34.4 34.4 34.4 50001 27.8 29.2 30.6 34.4 34.4 34.7 3 f . 1 3 f . 1 35 • 1 35 • 1 35 • 1 35.1 35.1 35.1 ιE 32.3 32 - 3 45001 27.9 40001 30.2 33.6 33.3 35.7 33.3 35.1 35.1 37.8 1, 5 29.2 32.3 32.3 34.4 34.4 34.7 35 - 1 35.1 31.6 37.1 37.1 37.5 37.8 37.8 6 E 34 . 7 34.7 35031 37.6 35.1 37.5 37.5 17.A 39.1 39.1 38.1 38.1 3 R . 1 38.1 30001 32.0 i.E 34.7 36 . 4 38.8 38.8 49.1 51.2 51.5 51.9 52.2 52.2 CE 25501 41.9 44.3 45.7 47.8 48.1 49.1 52.6 52.6 52.6 52.6 2001 44.7 47.8 49.1 55.3 57.7 55.7 59.1 55.7 58.1 56.D 58.4 56.0 GΕ 51.2 51.5 52.6 52.6 1800| 46.4 1500| 49.1 55.0 59.5 55.0 59.5 ůΕ 50.2 51.5 53.6 54.0 57.0 57.4 58.4 58.4 58.4 62.9 61.9 67.5 62.5 62.9 54.0 62.2 GE 55.7 57.7 58.4 61.5 12001 57.7 66.3 82.5 93.5 94.5 85.2 85.2 85.2 85.2 17801 59.5 9551 59.8 ιE 71.1 75.3 76.6 78.7 79.4 83.8 85.2 96.3 66.6 87.3 88.0 88.0 AR.n 88.0 67.6 98.3 89.0 71.5 72.5 87.3 89.0 ūΕ (9.1 76 • 3 77 • 3 77.7 79.7 62.4 84.9 86.3 89.7 89.3 81.4 5401 67.8 85.9 50.7 99.3 90.0 00.0 90.0 90.0 8.09 80.1 80.8 91.8 92.8 G.F 7001 61.5 92.5 83.2 88.7 90.4 91.4 92.4 93.1 93.1 93.1 93.1 89.7 91.4 83.5 84.2 94.8 94.8 5001 61.9 71.5 94.8 14.6 79.7 81.1 93.8 84.5 90.0 91.8 92.5 91.1 94.2 94.9 ί£ 400| 62.2 Turl 62.2 230| 62.2 72.5 75.6 75.9 8U.8 62.5 63.2 95.2 91.8 93.A 91.2 96.2 97.6 96.9 98.3 96.9 98.3 96.9 98.3 96.9 98.3 G.F. 85.9 94.6 96.2 υE 86.9 72.9 96.0 97.9 99.0 99.0 99.0 99.0 63.2 87.6 97.1 GE 1001 62.5 16.3 81.6 93.5 15.0 96.9 28.3 99.3 99.3 99.3 99.7 C.F 31 62.5 73.2 76.3 H 7.5 9: . 9 96.9 E1 . S 26.6 87.6 91.5 97.1 98.3 99.3 1.99 99.3 100.0

GLOHAL CLIMATOLOGY PRANCH USACETAC AIR MEATHER SERVICE/MAC

0

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOUSEY OBSERVATIONS

STATION NUMBER: 271130 STATION NAME: MURMANSK USSR PER100 OF RECORD: 77-86 MONTH: NOV POURS(EST): 1200-1400 VISIBILITY IN FUNDREDS OF METERS CEILING SE GE IN | G1 FEET | 16 GE GE GE 32 24 20 GE SE GE GE GE 5 GE 167 61 48 45 12 10 NO CEIL | 12.8 14.5 ز.19 19.7 20.4 21.1 21.1 21.1 21.1 21.1 21.1 23.9 26.6 GE 200001 17.3 19.4 19.4 21.5 24.6 25.6 25.6 26.6 26.6 26.6 26.6 26.6 26.6 SE 190301 17.3 19.4 24.6 25.6 25.6 26.6 26.6 19.4 21.5 26.6 76 . € 25.6 26.6 26.6 26.6 GE 160001 17.3 GE 140001 17.3 17.4 23.9 24.6 25.6 76.6 25.6 25.6 26.6 26.6 19.4 21.5 25.6 26.6 26.6 26.6 23.9 24.6 19.4 19.4 21.5 25.6 25.6 26.6 26.6 26.6 25.6 26.6 26.6 26.6 GE 127501 17.3 26.6 25.6 26.6 26.6 26.6 25.6 26.6 26.6 26.6 79.1 17.7 30.0 4 ^ . I 6E 100001 26.7 32.2 36.7 ₹8.4 40.1. 40.1 40.1 40.1 46.1 40.1 90001 26.0 80001 26.5 73001 26.0 40.1 **(**- ξ 28.7 29.1 12.2 34.9 36 **.** 7 37.7 38.4 39.8 40.1 43.1 43.1 40.1 40.1 40.1 65 23.7 29.1 32 · 2 32 · 2 34.9 36.7 36.7 37.7 38.4 39.0 40.1 40.1 43.1 43.1 40.1 40.1 40.1 43.1 40.1 47.1 60001 26.0 32.2 34.9 40.1 48.1 40.1 43.1 40.1 40.1 50001 26.6 45001 26.6 40001 27.7 35001 27.7 47.0 ŏ€ 29.4 29.9 32.9 35.6 37.4 30.4 37.1 40.5 43.8 40.8 43.8 4J.8 4J.8 40.8 4 C . A 22.9 23.9 üξ 29.4 29.8 37.4 39.4 39.1 40.8 4J.8 40.B 35.6 40.5 40.8 40.8 υE 30.4 36.7 36.4 39.4 40.1 41.5 41.9 41.9 41.9 41.9 41.9 41.9 41.9 31.1 42.2 ه ۱۰ ت 74.3 37.3 36 · 8 40.5 42.2 42.2 42.2 42.2 42.2 42.2 59.2 63.7 65 25001 38.4 43.6 45.J 51.5 54.0 55.7 57.1 58.8 59.2 59.5 59.5 59.5 59.5 59.5 2"30| 42.2 1930| 42.9 GE 47.4 52.9 54.3 56 • 1 57 • 1 58.5 59,5 61.6 62.6 63.7 64.0 65.1 48.9 60.2 63.3 64.0 64.0 64.C 64.0 48.4 49.8 64 . 7 64.7 65.1 65.1 65.1 65.1 üΕ 64.4 61.2 52.0 62.3 67.5 66.7 15001 4540 51.2 56.7 59.5 65.4 67.1 67.6 68.2 68.2 68.2 71.3 12401 51.9 82.0 66.8 96.5 97.5 A7.5 87.9 1/201 51.9 61.9 5 3 . 3 72.3 17.5 48.2 A9.3 89.3 89.6 79.9 B 3 . 4 86.2 80.7 98.9 99.3 67.3 9001 52.6 68 62.6 64.0 73.0 87.2 99.3 89.3 90.3 90.7 68.5 76.5 84.4 40.6 90.3 90.3 81.0 SE SE 52.6 54.3 55.7 60.9 73.9 73.4 18.9 81.3 84.8 87.5 59.E 89.6 93.1 90.3 90.7 90.7 97.7 91.0 93.1 93.6 94.8 64.1 21.7 94.8 75.0 84.1 88.2 95.2 GE saci. 5001 59.0 45.1 56.9 72.J 77.2 23.4 85.9 90.7 93.4 95.5 95.5 96.2 97.2 97.2 97.2 97.6 4 10 | 54.0 TUO | 54.0 6 E 72.3 77.5 91.45 98.6 55.1 56.5 24.4 86.9 91.7 94.5 96.5 97.2 98.6 98.6 99.0 72.3 77.5 84.4 86.9 91.7 94.5 76.5 94.5 97.2 98.6 98.6 98.6 99.0 6.5 2001 54.0 1321 54.0 65.1 66.5 12.3 77.5 44.4 86.9 91.7 94.5 96.5 96.5 97.2 98.6 98.6 98.6 99.0 91.7 86.9 96.5 98.6 99.3 99.0 100.0 G E 11 54.0 72.3 77.5 44.4 96.5 96.5 97.2 98.6 99.0 99.0 100.0 91.7 94.5 86.9

GLOBAL CLIMATOLOGY BRANCH USAFETAC

0)

PERCENTAGE FREQUENCY OF OCCURPENCE OF CEILING VERILS VISIBILITY FROM HOURLY OBSERVATIONS

AIR WEATHER SERVICE/MAC

STATION NUMBER:	271130	STATI	ON NAME:	MURM	ANSK US	S P				PEPIOD	OF REC				
										MONTH	: NOV	HOURS	(LST):	1500-17	00
	• • • • • • •	• • • • • •	• • • • • • •	• • • • • •							• • • • • • •	• • • • • • •	• • • • • • •	• • • • • •	•••••
CEILING								HUNDR ED!	GE	SE	GE				
IN 61	66	GE	ьE	GE.	GΞ	G E 32	GE 24	2 D	16	12		GΕ	GC S	GE 4	GE O
FEET 1 160	90	80	60	4 3	45						19	9			-
	• • • • • • •	• • • • • •	• • • • • • • •	• • • • • •	• • • • • •		• • • • • • •				• • • • • • •	• • • • • • •	• • • • • • •		• • • • • • • • • •
NO CEIL 14.6	18.4	19.1	20.1	27.0	21.9	22.2	22.9	23.6	24.0	24.7	24.3	24.3	24.3	24.3	24.3
SE 200001 17.7	22.6	23.3	24.3	25.0	26.4	27.1	27.8	29.5	28 • 8	20.8	29.2	29.2	29.2	29.2	29.2
0F 188001 17.7	22.6	23.3	24.3	25.0	26.4	27.1	27.8	28.5	28.8	20.8	29.2	29.2	29.2	29.2	29.2
05 160001 17•7	22.6	23.3	24.3	25.0	26.4	27.1	27.6	28.5	28.5	2 . 8	22.2	29.2	29.2	29.2	29.2
GE 14-001 17.7	22.6	23.3	24 • 3	25.0	26.4	27.1	27.8	28.5	29.€	20.8	29.2	29.2	29.2	29.2	29.2
GE 120501 17.7	22.6	23.3	24.3	25.0	26.4	27.1	27.8	28.5	28.8	28.9	29.2	29.2	29.2	29.2	29.2
Ot. 12 S 1117	22.0	2 , • 3	2443	27.0											
SE 100001 27.8	34.0	35.1	37.5	38.5	40.3	41.C	42.0	43.4	43.8	47.8	44.1	44.1	44.1	44.1	44.1
UE 90001 27.8	34.0	35.1	37.5	38.5	40.3	41.3	42.0	43.4	43.8	47.9	44.1	44.1	44.1	44.1	44.1
GE 80001 27.8	34.L	35.1	37.5	39.5	40.3	41.0	42.0	43.4	43.8	47.8	44.1	44.1	44.1	44.1	44.1
GE 7"301 27.9	34.0	35.1	37.5	39.5	4C - 3	41.C	42.0	43.4	43.8	43.8	44.1	44.1	44.1	44.1	44.1
GE 60001 27.8	34.1	35.1	37.5	38.5	40.3	41.0	42.0	43.4	43.8	4 7 . A	44.1	44.1	44,1	44.1	44.1
66 STOOM 27.8	74.0	35.1	37.5	38.5	40.3	41.0	42. ũ	43.4	43.8	43.8	44.1	44.1	44.1	44.1	44.1
GE 4530 27.8	34.4	35.4	31.9	39.9	45.6	41.3	42.4	43.8	44.1	44.1	44.4	44.4	44.4	44.4	44.4
65 4700 29.9	30.5	37.5	39.9	41.0	42.7	43.4	44.4	45.8	46.2	44.2	46.5	46.5	46.5	46.5	46.5
GE 35 JO 1 30 . 2	26.8	37.8	40.3	41.3	43,1	43.8	44.8	46.2	46.5	46.5	46.9	46.9	46.9	46.9	46.9
GE 3700 32.6	39.2	47.3	42.7	43.8	45.5	46.2	47.2	48.6	49.0	40.0	49.3	49.3	49.3	49.3	49.3
65 25001 39.9	50.0	51.5	54.5	55.9	58.3	59.0	63.4	01.8	62.2	67.5	62.8	62.8	62.8	62.8	62.8
GE 21001 41.3	51.4	52.4	55 • 9	57.6	60.1	60.8	62.2	63.5	63.9	64.2	64.6	64.5	64.6	64.6	64.6
65 1900 42.7	5.2+8	53.8	57.3	50 € [61.5	•62 • 2	63.5	64.9	65.3	65.6	66.3	66.0	66.0	66.0	66.0
UE 15001 43.8	55.2	56.3	59 • 7	61.5	64.2	64.9	66.3	67.7	68.1	60.4	68.6	68.8	68.8	68.8	68.8
65 1200 51.4	€5.3	66.7	71.5	74.7	7€.8	80.6	82.6	86.1	P7.2	8 7 . 0	PR.9	39.2	89.6	89.6	89.9
GE 1.301 52.4	66.3	57.7	72.6	75.7	79.9	81.6	84.4	87.8	P8.9	83.6	90.6	91.0	91.3	91.3	91.7
SE 9301 52.8	66.7	63.i	72.9	76.0	90.6	82.3	85.4	88.9	99.9	97.6	91.7	92.3	92.4	92.4	92.7
JE 9,71 53.1	67.3	59.4	73.3	76.4	80.9	82.6	85.8	89.2	90.3	91.0	92.0	92.4	92.7	92.7	93.1
UF 7001 53.5	67.7	67.1	74.3	77.4	81.9	83.7	87.2	91.3	92.4	97.1	64.1	94.8	95.1	95.1	95.5
GE 4001 53.5	68.4	69.8	75 • J	79.1	82.6	84.4	87.8	92.4	93.4	94.1	95.5	96.2	96.5	96.5	96.9
													• • •		
UE FUR! 53.5	69.4	69.8	75.J	78.1	R2.6	84.4	97.8	92.4	93.4	94.1	95.5	96.2	96.5	96.5	96.9
GE 4671 53.8	69.1	77.5	76.4	77.5	64 . D	85.8	89.2	93.8	95.1	àc ° à	97.2	98.3	98.6	98.6	99.0
.E 30J 53.₽	67.1	77.5	76.4	77.5	84. U	85.8	89.2	93.8	75 . 1	95.8	97.2	98.3	98•6	98.6	99.0
GE 100 53.8	64.1	70.5	76.4	79.5	94.3	85.9	89.2	93.8	95.1	90,0	97.2	98.3	99.0	99.0	99.3
6E 1001 53.8	67.1	73.5	76.4	79.5	84.0	85.8	89.2	93.8	95.5	96.2	97.6	98.6	99.3	99.7	100.0
6E 51 53.º	60.1	77.5	75.4	79.5	94. D	85.0	89.2	93.8	95.5	94.2	97.6	98.6	99.3	99.7	100.0
	• • • • • • •	• • • • • •	• • • • • • •	• • • • • •	•••••	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • •	• • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • •	•••••

GLOBAL CLIMATOLOGY BRANCH USAFETAC AIR WEATHER SERVICE/MAC

PENCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 221130 STATION NAME: MURMANSK USSR

STATION NUMBER:	221130	11412	ON NAME	: พบสห	ANSK US	SP						ORD: 77			
										MONTH		FOURS	(LST):	1800-22	100
CEILING	• • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	•••••	VISIBIL	ITY IN	HUNDRED!	S OF ME	TERS	• • • • • •	• • • • • • •	• • • • • •		•••••
19 61	GE	GE	30	GE	GΞ	GE	GE	GE.	GE	56	GE	GΕ	GE	GE	GE
FEET 160	90	5.0	4 3	46	4 0	32	2.4	2.0	16	12	10	9	ς.	- 4	ű.
• • • • • • • • • • • • • • • •	• • • • • •	• • • • • •			• • • • • •	• • • • • •	• • • • • •					• • • • • • •			
NO CETE 19.5	23.2	27.9	22.2				2 7		25 0						
NO CESC 175.		2 1 . 7	22.3	23.3	23.6	23.6	24.7	24.7	25.0	25.3	~5 • 3	25 • 3	25.3	25.3	25.3
GE 200001 19.2	21.2	22.3	23.6	24.7	25.0	25.0	26.0	26.0	26.4	25.7	26.7	26.7	26.7	26.7	26.7
S.91 CCCE1 3:	21.2	22.3	23.6	24.7	25.0	25.0	26.0	26.0	26.4	26.7	26 . 7	26.7	26.7	26.7	26.7
GE 16737 19.2	21.2	22.3	23.0	24.7	25.0	25.0	26.0	26.0	76.4	21 7	26.7	26.7	26.7	26.7	26.7
GE 14 331 19.2	21.2	22.3	23.5	24.7	25.0	25.0	26.0	26.3	26.4	25.7	26.7	26.7	25.7	26.7	26.7
SE 121001 19.2	11.2	22.3	23.6	24.7	25.0	25.0	25.0	26.7	76.4	26.7	26.7	26.7	26.7	26.7	26.7
						•			• •					200.	
6E 10003 29+1	30.5	51.8	33.9	34.7	35.6	35.6	37.7	37.7	38.0	30.4	78.4	3A.4	38.4	38.4	36.4
6E 93631 25.1	33.5	31.3	33.9	34.9	35.6	35.6	37.7	37.7	38.3	30.4	39.4	38.4	38.4	38.4	38.4
68 8:00 2°•1	33.5	31.9	33.9	34.7	35.6	35.6	37.7	37.7	38.0	3 = . 4	79.4	39.4	38.4	38.4	36.4
6F 7mon1 23.1	30.5	31.0	33.9	34.9	35.6	35.6	37.7	37.7	38.0	3=.4	38.4	39.4	38.4	39.4	38.4
UE 6000 29+1	77.5	31.4	33.9	34.9	35.6	35.6	37.7	37.7	38 • C	32.4	39.4	38.4	38.4	38.4	38.4
65 5000] 29 . 4	33.6	32.2	34 . 2	35.3	36.0	36 . 3	39.0	30.7	38 . 4	32.7	38.7	38.7	39.7	38.7	38.7
GE 47631 29.1	31.5	32.7	34.9	36.0	36.6	36.6	38.7	38.7	79.€	30.4	39.4	39.4	39.4	39.4	39.4
⊎E 4:Jp 3Q•1	32.5	34.2	30 - 3	37.5	38.C	38.3	40.1	40.1	40.4	40.9	40.9	40.8	43.8	40.8	40.6
65 3500[31.5	73.9	35.6	37.7	39.7	35.4	39.4	41.4	41.4	41.6	47.1	42.1	42.1	42.1	42.1	42.1
45 3000 1 33, 0	36.3	38.€	40 - 1	41.1	41.8	41.8	43.5	43.9	44.2	44.5	44.5	44.5	44.5	44.5	44.5
									-						
DE 25001 46.9	52.7	54.5	56.3	57.9	58 • 6	58.6	61.3	61.3	61.6	60.0	62.0	62.0	62.0	62.0	62.0
65 2000 5 0•0	56.2	57.9	60.3	61.3	62.C	62.0	64.7	64.7	65.1	6 . 4	65.4	65.4	65.4	65.4	65.4
GE 19001 52.1	53.6	57.3	62.7	63.7	64.4	64.4	67.1	67.1	67.5	67.3	67.8	67.8	67.8	67.8	67.8
05 15001 55.5	€2.0	5 3 • 7	66 • 1	67.5	68.2	68.2	71.2	71.2	71.6	71.9	71.9	71.9	71.9	71.9	71.9
68 12881 62 . 7	72.5	77.9	77.1	79.9	PC.8	81.8	86.6	87.0	97.7	80.0	29.D	5 B . 4	98.4	89.4	A8.4
UE 11301 62.7	71.9	74.3	79.1												
6E 9031 62.7	72.6		-	01.3	E 3 • 2	84.2	89.0	89.4	45.1	90.4	93.4	90.6	90.8	90.8	90.8
05 0001 63•0	72.9	75.	79.8	8 ? • 5	83.9	84.9	89.7	90.1	90.8	91.1	91.1	91.4	91.4	91.4	91.4
05 7001 64.6		75.7	A 3 • 5	63.2	94.6	85.6	93.6	91.1	91.8	92.1	92.1	92.5	92.5	92.5	92.5
6E (J) 64.0	75.€ 75.3	77.7	32 - 5	25.3	AC. 6	0.98	93.2	93.5	94.2	94.5	54.5	94.9	94.9	94.9	94.9
06 6371 644	(3.7	78.4	83.2	86.U	P7.3	88.7	94.2	94.5	95.2	95.5	°5.5	95.9	95.9	95.9	95.9
∂E 5001 64.4	75.7	79.1	93.9	86.5	38. D	89.4	94.9	95.2	25.9	91.2	95.2	96.6	96.6	96.6	96.6
.5 4031 64.4	76.7	37.1	04.9	87.7	89.C	93.4	95.9	96.2	96.9	97.3	97.3	97.6	97.6	97.6	97.6
6F 303 64.4	76.7	90.1	84.9	67.7	P9.4	97.8	96.2	96.6	97.3	97.6	97.6	97.9	97.9	97.9	97.9
HE 200 64.4	76.7	30.1	94.9	87.7	89.4	90.8	96.2	96.6	67.3	97.6	97.6	98.3	99.3	99.3	99.3
UE 1001 64.4	76.7	97.1	84.9	67.7	99.4	97.8	96.2	96.6	97.3	97.6	97.6	98.3	99.3	99.7	100.0
					9 / • •	, , • 3		70.0	-, • 3	,	.,.0	70 . 3	7743	7741	. 30.0
CE 51 64.4	76.7	97.1	84.9	87.7	59.4	90.8	96.2	96.5	97.3	97.6	97.6	98.3	79.3	99.7	100.0
		• • • • • •	• • • • • • •		• • • • • •										

GEGRAL CEIMATOLOGY BRANCH USAFETAC AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CELLING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 221130 STATION NAME: MURMANSK USSR

PERIOD OF RECORD: 77-86
FONTH: NOV POURS(LST): 2100+2300 CEILING VISIBILITY IN HUNDREDS OF METERS
GE GE GE G ĞĒ 9.j SE GE FEET 1 160 80 65 48 40 32 24 20 16 1 ? 10 Ū 25.7 NO CEIL | 16.1 19.5 21.2 25.0 25.3 25.7 26.3 26.0 26.0 22.0 24.3 25.0 26.3 26.0 27.4 GF 207301 17.8 21.2 22.7 24 . 3 25.3 26. 7 26.7 27.1 27.4 27.4 27.7 27.7 21.7 27.7 27.1 22.9 27.4 CE 180001 17.8 CE 16001 17.8 CE 141001 17.8 26.0 27.4 21.2 27.4 27.7 21.7 24.3 26.7 26.7 27.1 27 • 7 27 • 7 27.7 27.7 21.2 24.3 26.7 26.7 27.7 27.7 26.3 26.7 27.1 24.3 26.7 27.7 27.7 DE 100001 26.7 32.5 34.2 35.6 37.3 38.0 38.0 38.4 38.7 18.7 39.0 39.0 39.0 39.0 39.0 9303| 26.7 6003| 26.7 7000| 26.7 37.3 37.3 37.5 39.7 59.7 65 32.5 72.5 34.2 35 • 6 38.0 38.0 38.0 38.4 38.4 36.7 38 • 7 38 • 7 39.3 39.0 39.0 39.0 39.0 3°.0 39.0 39.0 GE 30.0 35 - 6 32.5 72.5 38.0 38.0 39.7 34.2 35 . 6 38.4 38.7 38.7 30.7 39.0 19.0 39.0 39.0 67601 26.7 37.3 35 . 6 5 E 30.0 23.2 50001 27.4 34.9 33.3 38.7 39.7 ιί 36 . 3 38.7 45001 29.8 47001 29.8 35001 32.2 3°.7 4].4 43.2 40.4 42.5 45.2 47.4 47.5 45.2 GE 33.9 47.8 42.8 40.8 42.8 37.J 36.7 39.4 43.1 40.4 40.8 43.8 4 C . 8 35.6 39.4 41.4 42.1 42.5 42.8 45.5 42.8 42.8 41.4 45.5 45.5 G.E 30001 34.6 41.1 42.8 44.2 45.9 46.9 46.9 47.6 47.9 47.9 47.9 48.3 48.3 48.3 48.3 48.3 2103| 45.0 2103| 48.3 1800| 48.6 1900| 51.4 67.3 6.5 1 3.4 55.5 57.4 59.2 61.D 61.3 62.3 62.3 62.3 62.7 62.7 62.7 62.7 62.7 65.8 58.9 59.6 63.4 67.4 67.1 56.6 (, F 65.1 64.7 65.8 65.8 46.1 60.6 65.4 66.1 66.1 66.1 66.1 66.4 65.4 70.2 6°.0 ьE £ 7.5 61.3 66.1 66.4 66.8 66.8 61.3 70.5 70.5 70.5 65.1 68.8 69.2 70.2 70.5 70.5 я3.9 u E U E 11004 57.9 72.9 98.4 69.4 99.7 90.4 90.4 93.4 90.4 90.4 84.9 9001 57.9 9001 55.2 97.1 97.4 71.9 97.8 72.9 75.3 75.7 79.1 81.5 84.2 85.3 85.6 38.7 89.0 89.7 90.1 90.8 90.8 9J.8 91.1 93.8 9C.8 79.5 81.A 91.1 20.4 úΕ 90.1 707| 54.6 600| 58.6 62,5 83.6 86.3 92.5 93.5 92.8 74.0 76.4 93.1 92.8 G E 74.C 91.1 76.4 80.8 66.3 92.1 92.5 93.8 93.8 500| 58.6 400| 59.6 700| 57.6 76.4 77.7 77.7 87.3 89.0 89.0 97.2 93.8 94.2 91.4 ¥2.5 92.8 94.2 94.2 94.2 85.48 63.6 96.3 75.3 75.3 85.3 85.3 6 F 92.5 28.0 94.5 95.2 95.9 94.9 95.5 96.2 91.2 95.9 96 • 2 96.5 96.6 96.6 97.6 82.5 F8.0 93.6 96.9 97.3 97.6 75.3 85.3 2.5 94.2 58. D υE 1621 59.5 17.7 a5.3 P 8 . C 89.7 94.5 96.2 96.6 97.9 99.3 99.0 99.0 99.7 G.E 21 59.9 75.7 18.1 92.9 97.6 98.3 98.6 99.3 99.3 100.0

GLOBAL CLIMATOLOGY PRANCH USAFETAC ATR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURPENCE OF CFILING VIRSUS VISIBILITY FROM HOURLY GUSERVATIONS

STATION NUMBER: 221130 STATION NAME: MURMANSK USSR PERIOD OF FECORD: 77-86 VISIBILITY IN HUNDREDS OF METERS
IN | GT GE GE GE GE GE GE GE GE GE GE GE CEILING IN | GT FEET | 160 GE 5j . 12 GE GE 90 40 GE GE GE GE 32 34 20 16 6 E 10 40 4.8 5 U NO CETL 1 17.2 23.3 22.3 23.1 23.7 24.0 24.3 24.3 GE 20000 19.1 21.7 22.5 23.6 24.5 25.1 25.4 26.0 26.3 26.5 24.5 26.6 26.7 26.7 25.7 26.7 GE 18000| 19.1 GE 16000| 19.1 21.7 22.5 23.6 25.1 25.1 25.4 25.4 26.0 26.0 26.3 26.3 26.5 26.5 26.5 26.5 26.7 25.7 26.7 26.7 24.5 26.6 26.7 26.7 24.5 26.7 26.7 6E 147031 19.1 22.5 25.1 25.4 26.3 21.5 26.7 6E 12"001 19.1 21.7 22.5 23.5 24.5 25.1 25.4 26.0 26.3 26.5 26 . 6 26.7 76.7 26.7 26.7 6E 100001 27.6 71.2 32.4 34.0 35.0 36.0 ₹8 • 3 ₹8 • 3 18.5 18.5 36.4 37.6 39.1 15.5 38.5 38.5 90001 27.6 andel 27.6 70001 27.6 30.4 30.4 30.4 6 E 11.2 32.4 34.0 36. J 36.4 37.6 38.1 34.5 38.5 18.5 38.5 38.5 39.5 38.5 21.2 32.4 32.4 34 . J 34 . J 35.0 36.0 36.4 37.6 38.1 78.3 78.3 39.5 79.5 38.5 38.5 38.5 38.5 38.5 18.5 ₹6.0 36.4 38.1 37.6 C. F u 1001 27.6 21.2 34.3 37.6 38.1 38.5 5700| 28.2 4500| 28.5 4700| 30.3 3500| 31.3 37.1 30.5 41.6 42.8 C.F 31.5 33.0 34.7 35.1 26.7 37.1 38.3 38.8 79.7 39.2 39.2 39.2 19.2 35 · J 37 · 1 36 · 1 3^A · 1 39 · 3 37.1 GΕ 72.2 34.1 33.3 37.4 38.6 39.2 39.4 41.5 39,6 39.5 39.6 39.6 41.7 39.6 41.7 JE 39.2 40.8 40.7 42.0 GΕ 36.4 38 + 2 46.5 42.5 42.7 42.9 42.9 42.9 45.1 40. 4 . . 7 -4.7 2°00| 42.7 2001| 45.7 1900| 47.1 49.7 50.4 52.6 53.9 55.3 56.3 57.6 54.2 58.4 50.6 58.7 58.9 55.9 58.9 58.9 52.1 53.8 53.5 55.4 55.7 57.5 57.3 59.1 56.8 †C.5 59.4 61.7 61.9 63.7 67.7 62.2 64.2 64.2 64.2 GF 61.0 ű F. 62.8 64.3 50.0 15601 49.5 5.1.0 61.3 62.5 67.7 67.9 , E 12001 57.2 67.8 73.7 76.2 76.8 80.3 83. F 85.4 96.2 46.9 87.2 H 7 . 3 P7.5 17001 59.5 6 E 69.6 72.0 75 . 7 e1.0 87.9 99.7 99.9 89.9 79.2 82.6 86.3 88.7 60.9 69.4 90.0 901 58.9 8001 59.3 89.7 97.3 97.8 97.0 7).1 72.4 87.1 87.8 89.9 76.3 93.7 90.7 79.3 83.3 P9.5 91.2 81.6 88.7 97.5 90.8 79.4 15 F 77.5 72.9 76.9 82.2 67.4 90.2 92.9 91.2 91.3 91.3 91.5 71.6 74.2 7001 59.8 78.2 87.9 ιE 63.8 85.7 91.6 93.8 94.0 92.5 93.3 94.0 94.6 75.1 75.7 (, F Full 63.1 72.3 79.5 85.1 93.3 94.3 95.3 95.9 4051 67.3 3001 67.3 72.8 GF 80.0 80.1 83.5 86.2 86.3 86 .1 88 .3 92.7 93.1 94.7 96.1 96.8 97.4 99.0 97.5 98.1 95.7 97.5 97.7 72.9 75.7 08.1 98.3 96.3 υ£ 2001 62.3 1001 62.7 72.5 75.7 80.1 83.1 26.4 88.3 93.2 96.5 91.0 97.5 98.4 9.8 94.8 99.0 72.9 80.1 63 · i -6.4 93.3 96.6 98.6 99.1 99.2 99.B

97.1

97.7

98.6

99.2

59.3 106.0

TOTAL NUMBER OF OBSERVATIONS: 2321

72.9

75.0

80.2

83.2

Γ₆.5

88.4

93.4

35.5 96.6

01 60.4

SE

GLUBAL CLIMATOLOGY BRANCH (SAFETAC AIR WEATHER SERVICE/MAC

PERCENTAGE FREWDENCY OF OCCURRENCE OF CFILING VIRSUS VISIBILITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 201130 STATION NAME: MURMANSK USSR

PETIOD OF RECORD: 77-86 """ HTH: PEC HOURS(LST): 0000-0200 VISIBILITY IN FUNDREDS OF METERS
GE GE GL GE
32 24 LC 16 CEILING 60 90 6E 47 GE 48 FELT 1 160 40 1.0 ` 5 6.3 13 9 C NO CEIL | 19.8 32.6 35 . 2 31.5 26.5 GE 200001 21.5 26.2 28.9 34.9 37.9 25.2 32.7 33.9 36.9 37.2 37.6 37.5 17.6 :7.6 37.9 68 180501 21.5 58 160001 21.5 25.2 28.9 32.9 33.9 ?3.9 34.9 34.9 36.9 36.9 37.2 37.2 37.6 37.6 37.6 77.6 37.6 37.9 26.2 37.9 37.9 26.2 31.9 37.9 GE 140001 21.5 of 120001 21.5 25.2 26.2 28.9 32.9 33.9 34.9 36.9 37.2 37.6 77.6 37.6 37.9 37.9 37.9 65 100001 29.9 40.0 40.0 40.0 74.6 39.3 45.6 47.7 36.6 43. 3 44.6 48.C 49.0 49.3 49.0 49.3 49.3 49.3 90001 29.9 81001 29.9 71001 29.9 61001 29.9 49.0 49.C 3.5 34.€ 39.3 43.3 44.6 45.6 47.7 36.6 48.0 49.0 49.3 49.3 49.3 34.6 36.6 19.3 47.3 44.6 45.6 47.7 48.0 49.0 49.0 49.0 49.3 49.3 49.3 49.0 49.3 39. 3 45.6 49.C 49.3 49.3 Ū.E 34.6 36.6 43.5 44.6 47.7 48.0 49.3 45.6 36.6 44.6 49.C 49.0 49.0 49.3 47.7 48.0 36.6 CŁ 5000) 20.0 39.3 43.3 44.6 45.6 47.7 49.0 47.3 49.3 49.3 49.3 49.0 4501 30.0 4 601 30.9 35001 31.9 36.9 37.6 39.5 40.3 45.6 45.6 49.C 48.7 48.3 49.0 49.3 47.3 57.3 49.3 50.0 49.3 40.7 57.3 5 E 74.9 43.6 46.0 49.7 49.7 35.6 44.3 46.6 50.0 50.3 50.3 39.6 36.6 41.3 45.3 46.6 47.7 49.7 50.0 · 1 . 0 51.0 51.0 51.3 51.3 51.3 ., F 37001 32.6 41.9 46.3 47.3 48.3 50.3 50.7 51.7 51.7 51.7 51.7 E2.0 52.0 52.0 25001 39.9 27001 43.5 1817) 99.3 54.3 59.1 65.0 01.0 L.F 43.0 51.0 59.7 61.4 65.8 64.1 64 . A 66.1 66.4 66.4 60.9 70.9 72.1 5 £ \$1.0 \$2.7 54.3 57.3 61.1 62.5 67.1 67.8 68.8 68.8 69.1 69.5 69.5 67.1 66.4 67.8 70.8 71.1 59.1 64.8 69.1 69.8 70.6 71.5 71.5 15001 45.6 10001 49.3 72.1 72.8 6 E 54. 63.4 66. 1 70.5 71.1 72.1 72.5 72.8 89.3 52.1 76.5 50.3 89.9 1000 47.3 9001 50.0 8011 50.3 7031 51.3 (. 5 77.2 92.3 €3.1 66.1 76.4 79.2 82.9 A7.2 87.9 89.9 89.9 47.6 91.6 92.3 92.3 97.6 91.7 97.6 ა € (¿ . b 77.9 79.9 90.6 91.3 66.4 71.5 83.6 87.9 48.6 92.3 93.0 93.0 03.0 ú. 61.1 67.1 72 - 1 79.5 56.5 42.2 84.2 89.3 91.3 91.7 93.0 93.6 93.6 80.2 04.4 68.5 86.7 93.9 91.6 93.6 94.3 95. 7 96.0 96.0 96.0 86.9 94.3 95.0 96.6 96.6 68.6 96.6 92.3 76.C 69.1 £ 4.6 51.2 83.6 92.3 93.0 95.6 95.6 96.6 97.3 4:31 51.7 3571 51.7 69.1 74 • 8 74 • 8 81.2 87.9 87.9 93.3 93.7 96.0 96.7 99.0 99.0 t. F 64.6 °3.6 97.3 98.3 99.0 64.8 93.6 99.0 94.C 97.3 99.0 6 E 98.3 202| 51.7 94.5 69.1 81.2 87.9 96.0 96.3 77.3 99.7 6 E 64.0 62.1 74 . + 81.2 13.6 87.9 93.0 94.5 26 . C 94.3 97.3 99.3 99.7 100.0 100.0 ĠΕ 11 51.7 54.6 59.1 74.6 51.7 53.6 87.9 93.0 94.5 96.5 96.3 97.3 99.0 99.7 100.0 100.0

GLORAL CLIMATOLOGY BRANCH USAFETAC AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOUPLY OBSERVATIONS

PEP10D OF PECORD: 77-86

STATION NUMBER: 221130 STATION NAME: MURMANSK USSR

•	1100	-	21,1130					•					: PEC			0330-05	
		• • • • •	• • • • • •		• • • • • •	• • • • • • •	• • • • • •				• • • • • • •	• • • • • •	• • • • • • •	• • • • • • •	• • • • • •	• • • • • •	
	LING			6 ·	. •					EAMOBED;			c:				
I		CT	GL.	Gi	υ£	GE	GE.	GE	GF.	GE	GE	6£ 12	G L	GE	GE _	6€	ec _
		160	3.0	40	۴u	4.6	40	32	24	2.5	16		10	9	5	4	G
• • •	• • • • • •	• • • • • •	• • • • • •	• • • • • •	• • • • • •	• • • • • • •	•••••	• • • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • •	• • • • • • •	• • • • • • •	• • • • • •	• • • • • • • •	••••••
N 0	CLIL	14.2	16.2	19.8	22.6	26.1	26.4	27.4	29.0	30.7	30.7	11.0	31.4	31.4	31+4	31.4	31.4
S.F	tervet	15.2	19.1	27.3	23.6	27.4	27.7	29.7	30.4	32.0	12.0	32.3	32 - 7	32.7	72.7	32.7	32.7
5.5	180601	15.2	19.1	20.6	23.6	27.4	27.7	2 R . 7	30.4	32.7	32.0	3: . 3	72.7	32.7	72.7	32.7	32.7
	160001		19.1	20.5	23.8	27.4	27.7	28.7	30.4	32	32.0	37.3	12.7	32.7	32.7	37.7	32.7
	147051		19.1	20.4	23.8	27.4	27.7	28.7	30.4	32.7	*2 • C	32.7	32 . 7	32.7	32.7	32.7	32.7
	izroci		19.1	20.0	23.5	27.4	27.7	29.7	30.4	32.0	35.0	3 ~ • 3	22.7	32.7	32.7	32.7	32.7
6.F	.crua	24.4	29.4	31.7	34.5	39.5	78.6	39.9	42.9	45.2	45.2	46.5	45.0	45.9	45.9	45.9	45.9
5 E			2.1.4	31.0	34 • 3	38.3	36.6	39.9	42.9	45.2	45.2	4 5 5	45.9	45.0	45.9	45.9	45.9
	επου I		27.4	31.0	34 . 3	39.3	38.6	39.9	42.9	45.2	45.2	4 5	45.9	45.9	45.9	45.5	45.9
	71301		29.4	31.	34	38.3	38 • 6	39.9	42.9	45.2	45.2	41.5	45.9	45.9	45.7	45.9	45.9
	67071		29.4	31	34 . 5	38.3	76.6	39.9	42.9	45.2	45.2	45.5	45.9	45.7	45.9	45.9	45.9
5.5	50001	20.9	29.7	31.4	74.3	38.6	38.9	40.3	43.6	45.9	45.9	46.3	46.5	46.5	46.5	46.5	46.5
GΕ	45.001		31.0	32.7	75.6	39.9	40.3	41.6	44.9	47.2	47.2	47 C	47.9	47.9	47.9	47.9	47.9
GE	40651		32.7	34.5	37 • 3	41.5	41.9	43.2	46.5	48.8	48.8	42.2	49.5	49.5	49.5	49.5	49.5
0 €	31 301		13.0	34.7	37 • 6	41.9	42.2	43.6	46.9	49.2	49.2	40.5	49.8	49.0	49.8	49.8	49.8
ĹF	3501		73.3	35.0	38.5	42.6	42.9	44.2	47.5	49.9	49.8	50.2	5.7.5	50.5	50.5	50.5	50.5
	0. 334				- n -								. 1 0				
L.S.	21,371		45.2	46.7	50 • 5	55.8	57.4	59.4	63.4	65.7	66.3	61.7	67.0	67.7	67.0	67.0	67.0
6, 5			47.5	49.5	53 - 1	59.4	60. i	62.4	66.3	69.7	69.6	7 " • "	70.5	79.3	73.3	70.3	70.3
G E	15001		49.5	51.5	55 - 1	60.7	52.4	64.7	69.6	71.3	71.9	10.1	72.6	72.6	72.6	72.6	72.6
L.F	19101		5 1. 5	52.5	56 - i	61.7	63.4	65.7	69.6	72.6	73.3	7 - 6	73.9	73.9	73.9	73.9	73.9
υE	17001	4	56.B	69.4	65.3	73.6	76.6	87.5	86.1	89.1	8,69	9 ^ • 1	90.4	93.4	91.1	91.7	91.7
CE	1 771	46.5	38.4	62.0	67.0	75.6	76.5	82.5	88.1	91.1	91.7	9.2 • 1	92.4	92.4	93.1	93.7	93.7
u.F	95001	47.5	. 7 . 4	6 7 · .	68.3	76.7	79.9	83.8	89.4	92.4	93.1	97.4	03.7	93.7	04.4	95.0	45.7
ЬF	e 301	47.9	57.1	63.7	69.0	77.6	გე. 5	84.5	23.1	93.1	93.7	94.1	34,4	94.4	95.0	95.7	95.7
(-	7671	43.2	5 , 4	54.0	69.0	78.2	R1.6	45.6	91.4	24.4	95.€	99.4	75.7	95.7	96.4	97.0	97.0
L.F	6051	45.5	o 5 • 7	64.4	70.3	74.5	82.2	86.5	92.1	95.3	95.7	96.3	96.4	96.4	97.3	97.7	97.7
CE	1571	45.5	5 J. 7	64.4	10.0	79.5	° . • 2	86.5	92.1	45.~	95.7	91.0	95.4	96.4	97.0	97.7	97.7
, 1	4:01	43.5	51.1	64.7	10.3	73.9	P2.5	66.8	92.7	95.7	96.4	94.7	97.6	97.7	97.7	90.3	98.3
G.E.		40.5	01.1	64.7	3 ، ن7	79.9	82.5	36.9	93.1	96.0	97.4	97.7	98.0	98.0	98.7	99.3	99.3
J.5	2021	4 5	61.1	54.7	70.3	78.9	H2.5	86.8	93.1	96.0	97.4	97.7	29.3	98.3	99.3	100.0	100.0
ı, E	ا ت	49.5	61.1	04.7	70.3	72.9	82.5	96.9	93.1	96.7	97.4	9 7	93.3	98.3	09.3	100.0	100.0
ű.F	-1	40.5	61.1	64.7	70.1	79.9	82.5	86.8	93.1	96.0	97.4	67.7	GP. 3	99.3	20.3	100.0	100.0

TOTAL NUMBER OF DESTRUATIONS: 303

GEDNAL CEIMATOLOGY ERANCH HSAFETAC AIR 4FATHER SERVICEMMAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOUPLY OBSERVATIONS

54.	FICH N	UMBER:	201130	5 7 4 7 1								MONTH		HOURS	(LST):	0600-08	00
		• • • • • •	• • • • • •	• • • • • • •	• • • • • • •	• • • • • •							• • • • • • •	• • • • • • •	• • • • • •	• • • • • •	• • • • • • • • •
	LI'G	ST			GF.			VISIBIL: GE	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	GE GE		CE CE	G.E.	G£	GE	GE	GE
FE		31 16 ft	9 E 9 E	GE 83		GE વહ	65 4 3	32	ن. 24	20	GE 16	1.2	1 0	o E	5	U (O.
			_		6.3		-								,	4	U
• • •	• • • • • •		• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •		• • • • • • •	• • • • • • •	• • • • • • • •			• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	
90	CETE 1	16.6	21.0	22.1	24.4	26.4	28.5	29.5	31.2	31.2	31.9	31.9	31.9	31.9	31.9	31.9	31.9
6 E	222001	18.0	22.7	24.4	26 • 1	28.1	30.2	31.2	32.9	32.9	33.6	27.6	33.6	33.6	33.6	33.6	33.6
	isnosi		22.7	24.4	26 • 1	29.1	30.2	31.2	32.7	32.9	33.6	37.6	33.6	33.6	33.6	33.6	33.6
	160001		22.7	24.4	26 • 1	28.1	3U. 2	31.2	32.9	37.9	33.€	37.6	33.6	33.6	33.6	33.6	33.6
	140031		22.7	24.4	26 - 1	23.1	30.2	31.2	32.9	32.9	33.€	31.6	33.6	33.6	33.6	33.6	33.6
	127-221		77.7	24.4	26 • 1	28.1	3U - 2	31.2	32.9	32.9	33.6	3 . 6	33.6	33.6	33,6	33.6	33.6
		-														•	
0.5	100001	24.1	13.5	32.5	34.2	35.3	18.3	40.7	42.4	42.4	43.4	47.4	43.4	43.4	43.4	43.4	43.4
υE	9 "6"	24.1	33.5	32.5	34 . 2	36.3	36.3	40.7	42.4	42.4	43.4	4 7 . 4	43.4	43.4	43.4	43.4	43.4
6. E	80001	24.1	30.5	32.5	34.2	36.3	36.3	47.7	42.4	42.4	43.4	47.4	43.4	43.4	43.4	43.4	43.4
GΕ	7:001	24.1	30.5	32.5	34 + 2	36.3	36.3	40.7	42.4	42.4	43.4	4 . 4	43.4	43.4	43.4	43.4	43.4
ı, E	67071	24.1	20,5	32.5	34 • 2	36.3	38.3	40.7	42.4	42.4	43.4	47.4	43.4	43.4	45.4	43.4	43.4
PE	5.331		11.2	33.2	34.4	36.9	30.0	41.4	43.1	43.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1
6 F	4550		31.5	33.6	35 • 3	37.3	39.3	41.7	43.4	43.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4
3.5	4767		33.6	35.6	37.3	37.3	41.4	43.7	45.4	45.4	46.4	40.4	46.4	46.4	46.4	46.4	46.4
LF	3, 70		34.6	36.€	36.6	42.7	42.7	45.1	46.8	46.8	47.8	47.8	47.8	47.9	47.6	47.8	47.8
CE	37901	28 • I	34.9	36.9	79.0	41.3	43.1	45.4	47.1	47.1	4 P • 1	40.1	48.1	48.1	48.1	48.1	46.1
G.E	25301	38.6	44.5	51.5	54.2	57.3	54.7	62.4	64.7	64.7	56.1	£ K . 4	66.4	66.4	56.4	66.4	66.4
6€	20001		50.2	52.9	55.6	59.6	61.5	63.7	66.4	06.4	67.8	6° • 1	68.1	68.1	68.1	65.1	68.1
56	16201		52.5	55.3	58.0	(1.0	63.4	66.1	69.0	69.8	70.2	77.5	70.5	70.5	70.5	70.5	70.5
U.S	11.001		55.9	59.6	61.4	04.4	66.8	69.5	72.2	72.2	73.6	7 7 . 3	73.9	73.9	73.9	73.9	73.9
(, e	1751	47.5	45.1	56.4	76.5	76.6	8C.0	83.1	86.8	08.1	09.5	97.5	91.2	91.0	01.9	91.9	92.2
ωĘ	10001	47.5	5 3 . 4	66.9	70.8	76.9	a (7	8 T . 7	97.8	89.5	93.5	9:.9	92.5	93.2	93.2	93.2	93.6
€		47.9	t 4 • 1	67.5	71.5	77.5	81.4	84.4	69.5	93.2	91.5	92.5	93.2	93.9	93.9	93.9	94.2
o F		47.8	64.1	57.5	71.5	73.0	91.7	84.7	28.8	90.5	91.9	97.7	93.6	94.2	24.5	94.2	64.6
üΕ		44.6	65.6	69.2	75.2	79.7	3.4	86.4	90.5	92.2	93.6	94.5	95.3	95.9	95.9	95.9	96.3
€, €	6001	4 2 3	65+€	69.2	73.2	79.7	n 3. 4	86.4	90.5	92.2	93.6	44.6	95.3	95.9	95.9	95.9	96.5
						_											
		40.0	€5+8	69.2	73.2	79.7	93.4	86.4	97.5	72.2	93.€	94.6	95.3	95.0	95.9	95.9	96.3
(, F		40.8	۵.ر۴	69.2	73.0	80	Q3.7	8.63	91.9	63.9	95.3	24.0	97.6	98.3	98.3	98.3	98.6
٦, ٢		48.8	67.8	69.2	73.6	87.3	33.7	86.8	91. 4	95.9	95.3	94.0	07.6	98.3	96.3	98.3	98.6
i, F		45.5	(5.8	69.2	73.6	8.3.5	63.7	86.P	71.9	93.9	95.3	51.09	97.6	98.3	98.6	98.6	99.0
o F	1031	49.P	65.6	69.2	73.6	83.1	° 3• 7	86.8	91.9	93.0	95.3	96.9	¢1.6	98.3	99.6	99.0	99.7
6.5	- 1	40.0			77 (u 0 0		0.4	01.0		0.5		0.7		00.0		
-			€ 50 + 85	69.2	73.6	87.3	33.7	86.8	91.9	93.9	95.3	96.0	97.6	98.3	99.0	99.0	100.0
		• • • • • •	• • • • • •			• • • • • •	• • • • • • •							• • • • • • •	• • • • • •		

GLOBAL CLIMATOLOGY PRANCH USAFETAC AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURPENCE OF CFILING VERSUS VISIBILITY FROM HOWFLY OBSERVATIONS

STATION NUMBER: 221137 STATION NAME: MURMANSK USSR PERIOD OF FLCORD: 77-86

3		ioi de la		3,511	014 144112		#14 JK U J	J.11				MUNTH			(LST):	0900-11	nn.
1130								VISIGIL	ITY IN	HUNDR ED:	S OF ME	TERS					
I		1 G T	GL	GΕ	GE	GE	63	GE	GΕ	GE	GE	, E	61	GE	GE	GΕ	Ģ€
FEE		1 160	ς,,	FS	6 U	4 6	4.0	32	24	2.7	16	17	16	9	5	4	0
	- ·												• • • • • • •				
						• • • • • • •											
۲n (EIL	15.5	18.2	19.9	21.9	25.6	75.9	26.3	28.6	29.3	29.6	29.6	43.0	30.0	30.0	30.0	30.0
LF ¿	205 40	1 16.5	19.2	20.9	22.9	26.5	26.9	27.3	33. €	30.6	71.0	31.0	31.3	31.3	31.3	31.3	31.3
GE I	16:63	1 16.5	19.2	20.5	22.9	26.6	26.9	27.3	30.0	30.6	31 • C	31.0	31.3	31.3	31.3	31.3	31.3
GE 2	61.00	1 16.5	19.2	20.9	22.9	26.6	26.9	27.3	30.0	30.6	31.0	31.0	31.3	31.3	31.3	31.3	31.3
		16.5	19.2	22.9	22.9	26.6	26.9	27.3	30.0	30.6	31.0	31.0	31.3	31.3	71.3	31.3	31.3
		16.5	19.2	20.9	22.9	46.6	26.9	27.3	30. C	30.6	31.0	31.0	31.3	31.3	31.3	31.3	31.3
									2000			- 1 • 0	3.43	3.43	34.3	3.13	
UF :	Embe	1 22.2	25.9	28.3	31.0	35.0	36.0	36.4	39.1	39.7	40.1	47.1	40.4	47.4	40.4	47.4	40.4
Ŀξ	9100	1 22.2	25.0	¿F.3	31.0	35.0	36.0	36.4	39.1	39.7	40.1	1 2 1	43.4	40.4	43.4	47.4	43.4
GΕ	6000	1 .2.2	25.5	20.3	31.3	35.0	36.0	36.4	39.1	39.7	40.1	4 7 • 1	49.4	40.4	49.4	47.4	45.4
		1 22.2	25.9	29.3	31.0	35	36.0	36.4	39.1	37 7	40.1	40.1	43.4	40.4	4C.4	40.4	40.4
5 É		22.2	25.5	29.3	31.0	35.3	76.0	36.4	39.1	39.7	40.1	47.1	40.4	43.4	40.4	40.4	40.4
														43.4			
6 E	5 1301	1 22.2	25.9	28.3	31.0	35.3	36 • O	36.4	39.1	39.7	40.1	40.1	49.4	43.4	40.4	47.4	40.4
GΕ	ان ز ۱۹۶	1 22.9	26.6	29.0	31.6	35.7	36.7	37.0	39.7	43.4	43.7	4~.7	41.1	41.1	41.1	41.1	41.1
0.5	400P	22.6	27.5	37.3	33.3	37.4	26.7	39.1	41.8	42.4	42 · E	42.8	43.1	43.1	43.1	43.1	43.1
UE	350.	23.9	25.3	30.6	23.7	37.7	39.1	39.4	42.1	47.8	43.1	4 ' 1	43.4	43.4	43.4	43.4	43.4
t. E		26.3	37.6	33.0	36.0	40.1	41.4	41.8	44.4	45.1	45.5	4 - 5	45.8	45.8	45.8	45.8	45.8
		•															
üΕ	25.07	34.7	42.8	45.5	49.8	54.5	57.2	57.9	61.6	62.6	63.3	67.3	63.6	63.6	63.6	63.6	63.6
GE	5, 73	36.0	44.1	47.1	51.2	55.2	56.6	59.3	63.C	64.0	64.6	64.	65.0	55.0	65.0	65.0	65.0
GΕ	1800.	36.7	44.2	47.8	51.9	56.6	59.3	59.9	63.6	04.6	65.3	6 . 3	65.7	65.7	65.7	65.7	65.7
G.F	11601	1 27.7	45.6	48.6	53.5	58.2	61.3	62.0	65.7	46.7	67.3	67.3	67.7	67.7	67.7	67.7	67.7
ĿΕ		44.8	56.2	59.3	65 • 7	72.4	77.8	79.1	34.5	86.2	87.9	67.Q	88.9	89.2	89.6	69.6	89.6
SE		45.8	57.2	67.9	66.7	73.7	79.1	60.5	85.9	87.5	87.2	8 6 • 2	90.2	93.6	93.9	99.9	96.9
ьE		46.1	58.2	52.,	67.7	74.7	80.1	81.5	86.9	48.6	5.0≎	9"•2	71.2	91.6	°1.9	91.9	91.9
G.E.	900	46.1	58.2	62.0	61.7	74.7	8C • 1	81.5	86.9	38.6	90.2	97.2	91.2	91.6	91.9	91.9	91.9
6.E	7:31	46.5	56.9	62.6	60.1	76.1	61.8	83.2	88.6	93.2	91.9	9:.9	93.3	93.6	93.9	93.9	93.9
6 E	4.50	46.5	58.9	63.0	69.4	76.8	8.58	84.2	P9.6	91.2	92.5	9.1.9	94.3	94.6	94.9	94.9	94.9
ia E		1 46.5	5.9.3	63.3	69.7	77.1	63·2	84.5	90.2	91.9	93.6	97.6	74.9	95.3	95.6	95.6	95.6
υľ.		46.5	53.6	63.6	70 · J	77.4	53.5	84.8	97.9	92.6	04.3	94.6	96.0	96.3	96.6	96.6	96.6
した		46.5	59.€	63.6	76.3	77.3	93.8	85.2	92.3	93.9	35.€	94.7	97.3	97.6	98.0	98.0	98.D
G€		46.5	59.6	51.5	70.3	77.0	93.8	85.5	92.6	94.3	06.0	96.7	27.6	98.7	99.0	99.0	99.0
(.5	1.333	45.5	53.€	63.5	73.3	77.8	83.8	85.5	92.6	94.3	36.0	96.7	97.6	98.7	99.3	99.3	99.7
_					_												
ſ₃ €		46.5	59.€	53.5	70 • O	77.5	83.8	85.5	92.6	94.3	60 • U	96.3	97.6	98.7	99.3		100.0

GLOBAL CLIMATOLOGY BRANCH USAFETAC AIR WEATHER SERVICEMMAC

PERCENTAGE FREQUENCY OF OCCURPENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

PEP100 OF RECORD: 77-86 STATION NUMBER: 221132 STATION NAME: MURMENSK USSR MONTH: DEC FOURSILSTY: 1200-1400 VISIBILITY IN HUNDREDS OF METERS
GE GE GE GE G
32 24 20 16 CEIL ING LE t¹ € IN I FECT I 6 F GE GF GΕ ύξ 5 GL GE ¥ Ł 30 63 4.6 14 8 0 100 17.0 27.0 NO CETE 1 12.3 19.3 28.C 29.3 28.7 29.0 29.0 29.0 16.7 23.0 24.3 26.0 27.7 72.3 12.0 GE 200001 15.6 27.7 29.3 31.3 32.0 32.3 32.3 19.7 23.0 22.3 23.3 26.3 31.0 3:.7 32.0 95 18000| 15.0 GE 16000| 15.0 GE 14000| 15.0 20.0 31.7 32.3 29.3 32.0 32.3 32.3 19.7 22.3 23.3 26.3 27.7 31.0 31.3 20.2 31.7 19.7 22.3 23.3 26.3 27.7 29.3 31.0 71.3 32.0 32.3 72.3 32.3 32.3 19.7 31.0 31.3 32.0 32.0 32.3 22.3 23.3 26.3 27.7 29.3 32.3 GE 100001 23.7 29.7 45.3 45.7 46.3 31.0 36.7 43.7 43.3 46.Û 46.3 46.3 90001 23.7 6:001 23.7 7001 27.7 31.0 31.0 31.0 45.7 29.7 34 • 0 35.7 35.7 38.7 49.7 43.3 45.0 45.3 46.0 46.3 46.3 46.3 46.3 υE 46.0 46.3 34 . 0 40.7 45.0 46.0 36.7 35.7 45.3 60001 23.7 43.3 45.3 46.0 45.0 6 E 31.0 34.3 36.7 40.7 45.0 46.3 46.3 5000 23.7 4000 24.0 4001 25.0 3500 25.0 36.7 29.7 31.0 34.3 35.7 40.7 43.3 45.0 45.3 45.7 46.3 46.3 G.E. 46.7 46.3 45.3 12.0 21.0 11.0 31.3 32.3 32.7 36.0 37.3 37.3 45.3 45.7 46.0 46.7 34 . 5 39.0 41.0 43.7 46.3 46.3 46.7 46.7 46.0 40.3 42.0 44.7 46.7 47.3 47.7 65 35.3 46.3 47.3 47.7 47.7 47.7 48.0 48.0 46.7 33.3 36 . 3 39.0 41.0 43.0 45.7 48.3 48.3 48.7 48.7 48.7 25071 35.7 2 331 39.0 19.71 39.7 19.31 39.3 64.7 6 E 44.7 46.7 50.3 51.7 55.3 57.7 63.7 63.7 64.3 65.3 65.3 65.7 66.0 66.C 49.5 52.3 53.J 58.3 56.7 69.0 68 47.0 54.3 60.3 63.3 06.3 67.0 67.3 48.5 68.0 68.7 69.D 47.7 55.3 61.0 64.0 67.C 67.7 68.7 69.7 69.7 69.7 (, : 4 1 . 7 50.7 54 . . . 56 . . 3 59.7 62.0 65.0 68.0 69.7 49.7 70.3 70.7 70.7 96.3 1"301 46.7 υĘ 49.3 62.5 65.7 73.3 76.0 81.0 86.0 87.7 89.7 90.7 91.3 92.3 92.3 92.3 91.0 5F U€ 9001 45.7 8001 47.3 59.2 62.7 65.7 68.7 69.3 73.3 74.0 76.0 76.7 81.0 81.7 86.7 97.7 80.0 40.7 92.0 92.3 92.3 98.3 66.3 89.7 01.3 91.7 47.3 1.5 53.3 67.0 77.3 1 301 47.3 63.3 91.3 23.0 6.5 67.3 75.3 78.3 93.3 88.3 90.5 93.3 94.3 94.7 Scal 47.3 95.0 (, f 6 1. 7 63.3 67.3 79.7 75.7 78.7 83.7 H8.7 93.3 91.7 93.3 93.7 94.7 95.0 89.3 90.7 6 1. 7 6 2 • 3 6 3 • 3 4201 47.3 71.0 71.3 92.3 94.7 94.0 95.3 95.7 95.7 u E 67.3 76.0 79.0 84.3 85.7 01.[94.0 74.3 CF 7001 47.3 2001 47.7 95.7 97.3 67.3 76.7 80.0 92.7 97.0 97.3 63.7 6 7 . 3 67.3 71.3 76.7 92.7 98.7 ιE 82.0 85.7 90.7 96.7 99.0 5 E 1001 47.3 99.3 99.3 100.0 61 47.3 76.7 80.0 92.7 98.7 94.0

AIR WEATHER SERVICE/MAC

GLGBAL CLIMATGLOGY ERANCH PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY USAFETAG FROM FOURLY OBSERVATIONS

PERIOD OF RECORD: 77-86

STATION NUMBER: 221130 STATION NAME: MURMANSK USSR

							_				MONTH			(LŠT):		
CEILING	• • • • • • •	• • • • • •	• • • • • • •	• • • • • • •	• • • • • • •				HUNDRED!			• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	•••••
	6.1	űŁ	G E	GE	GŁ	GE.	GE	GE	GE.	GE	GŁ	18	GE	66	GE	GE
	100	90	8.0	65	4.8	4 13	32	24	20	16	17	10	è	5	4	G.
									• • • • • • •				• • • • • • •			
NO CETE	1 17 6	15.4	16.4	25.0	22.5	24.6	26.2	28.2	29.2	29.8	26.8	30.2	30.5	30.5	30.5	36.5
NO CETE	12.	13.4	10.4		44.	24.0	20 • 2	20.2	2,	27.0			30.	,,,,	2003	,
65 00000 B	15.1	16.6	10.0	22.6	25.2	27.9	29.5	32.1	33.1	34 . 1	34 . 1	34.4	34.8	34.8	34.8	34.6
GE 16000		13.4	19.0	24.5	25.2	27.9	29.5	32.1	33.I	34 - 1	3" • 1	74.4	34.8	34.8	34.8	34.8
GE 160001	15.1	:8.1	19.7	22.6	25.2	27.9	29.5	32 • 1	33.1	34 • 1	34.1	34.4	34.8	14.8	34.8	34.8
6E 141571	15.1	18.2	10.	22.0	25.2	27.9	29.5	32.1	33.1	34 - 1	34.1	74.4	34.8	74.8	34.8	34.8
GF 120001	15.1	18.	19.0	22.6	25.2	27.5	29.5	32.1	33.1	34 • 1	34.1	74.4	34.P	74.8	34.8	34.8
UE 100.001	22.6	21.2	28.5	32 • 1	35.7	39. C	40.7	43.6	44.6	46.2	41.2	46.6	46.7	46.9	46.9	46.4
	22.6	27.2	29.5	32 • 1	35.7	39.0	40.7	43.6	44.6	46.2	44.2	45.6	46.9	46.9	46.9	46.9
	22.6	21.2	28.5	32.1	35.7	39.0	40.7	43.6	44.6	46.2	46.2	45.6	46.7	46.9	46.9	46.5
	23.6	27.2	28.5	32.1	35.7	39.0	40.7	43.6	44.6	46.2	46.2	46.6	46.9	46.9	46.9	46.9
	22.6	27.2	28.5		35.7		42.7	43.6	44.5	46.2	46.2	46.6	46.9	46.9	46.9	46.9
95 9,001	22.0	21.2	28.5	32 - 1	30.1	39.0	42.7	43.6	44.5	40.2	41	46.6	40.9	46.9	46.9	46.9
65 5000l	23.3	27.9	29.2	32 + 8	36 • 4	39.7	41.3	44.3	45.7	46.9	41.0	47.2	47.5	47.5	47.5	47.5
SE 45901	23.3	27.9	29.4	32.8	36.4	39.7	41.3	44.3	45.0	46.9	46.7	47.2	47.5	47.5	47.5	47.5
GE 41301	24.9	29.5	37.8	34 . 4	38 · J	41.6	43.3	46.2	47.2	48.9	4 = . 9	49.2	47.5	49.5	49.5	49.5
6E 35601	24.9	29.5	37.8	34 . 4	38.0	41.6	43.3	46.2	47.2	48.9	45.3	49.2	49.5	49.5	49.5	49.5
UE 3000	25.2	29.8	31.1	34.8	38.4	42.0	43.6	46.6	47.5	49.2	49.2	49.5	49.8	49.8	40.8	49.8
JE 25.00	1 32.1	41.3	43.3	47.5	51.1	54.6	56.7	60.3	62.3	63.9	64.6	65.2	65.9	66.2	66.2	66.6
	33.5	43.0	44.6		52.0				-						68.5	68.9
	35.7			49.2 51.1		56.4	58.4 60.3	62.0	63.9	66.2	66.9	67.5	68 • 2	68.5		
		44.3	46.6		54.5	58.4		63.9	65.9	68 • 2	60.9	69.5	70.2	70.5	70.5	76.8
	37.4	45.9	48.5	53 • 1	56.7	66.3	62.3	65.9	67.0	70.2	7.0.0	71.5	72.1	72.5	72.5	72.8
UF 1701	43.6	c 4 . į.	57.0	62.6	67.2	72.5	75.7	яј. 3	43.6	A7.5	88.3	93.2	91.5	92.5	92.5	92.8
65 1:00	44.9	56	58.4	63.9	68.5	73.8	77.4	82 • G	85.2	89.2	9 ~ . 5	91.8	93.1	94.1	94.1	94.4
ଜ୍ମ ଜ୍ଞାନ	1 45.2	56.4	58.7	64.3	69.9	74.1	77.7	82.3	85.6	P9.5	90.9	92.1	93.4	04.4	94.4	94.8
65 950	45.2	56.4	5°.7	64.3	68.9	74.1	77.7	82.3	85.6	R9.5	9 0	92.1	93.4	94.4	94.4	94.8
65 700	41.2	56.7	59.0	64.6	69.5	74.8	78.4	83.0	86.6	90.8	97.5	93.6	95.1	96.4	96.4	96.7
	45.2	55.7	59.0	64.0	69.5	74.8	78.4	83.3	86.9	91.1	92.9	94.1	95.4	96.7	96.7	97.0
9E 5UE	1 45.2	56.7	59.4	64.5	69.5	74. (70 "	93.3	0	01.1	07.0	0.0	95.4	96.7	96.7	97.0
						74.6	78.4		86.°	91.1	92.8	94.1				
	45.2	57.1	59.3	64.9	69.8	75.1	79.0	84.6	88.2	92.5	94.4	95.7	97.0	98.4	98.4	98.7
	45.2	57.J	50.3	64.9	70.2	75.4	79.3	94.5	88.9	93.4	95.4	96.7	98.0	99.3	99.3	99.7
	45.2	57.0	59.3	64.9	70.2	75.4	79.3	84.9	88.9	93.4	9 . 4	36.7	99.3	99.7	99.7	100.0
6E 1.00	4.5	57.5	59.3	64.9	70.2	75.4	79.3	84.5	68.9	03.4	95.4	96.7	98.3	9.7	99.7	100.0
trE J	1 45.2	57.3	59.3	64.9	72.2	75.4	79.3	84.9	68.9	93.4	95.4	96.7	98.3	99.7	99.7	100.0

GLOSAL CLIMATOLOGY BRANCH AIR WEATHER SERVICE/PAC

0

PERCENTAGE FREQUENCY OF OCCURPENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 22113E STATION NAME: MURMANSK USSR

PELLOU OF RECORD: 77-86 HONTH: DEC HOURS(LST): 1800-2300 VISIBILITY IN HUNDREDS OF METERS
GE GE GF CEILING GF ر ا ا G E 32 GE 27 GE 5 ĢΕ GE GE GE IN | 61 FEET | 160 10 16 1.2 96 80 60 40 ΨIJ Ω 27.5 27.5 29.8 30.2 30.5 30.5 NO CEIL | 16.9 10.6 20.7 23.1 26.1 34.9 34.9 23.1 31.5 33.9 34 . 6 34.9 35.3 GE 202001 20.3 24.7 27.1 37.2 31.5 34.2 6E 14001 20.3 6E 14001 20.3 34.9 34.9 34.9 34.9 35.3 35.3 31.5 31.5 34.2 34.6 34.9 34.9 34.9 34.9 23.1 24.7 37.2 27.1 31.5 24.7 30.2 33.9 34.9 27 - 1 31.5 34 . 6 34.9 31.5 33.9 34 + 2 27.1 23.1 37.2 31.5 34.9 35.3 4 ° . 1 4 ° . 1 4 ° . 1 45.1 39.0 41.0 44.1 44.4 44.7 45.1 45.1 45.8 6F 100C0[27.5 9 1001 27.5 8 101 27.5 30.8 37.8 32.5 32.5 39.0 39.0 40.3 40.3 41.0 41.0 44,4 45.1 45.1 45.1 45.1 45.1 45.8 45.8 GF 35 • 6 44.1 44.7 45.1 35.6 44.1 45.1 70031 27.8 71.2 32.9 35.9 30.3 4C. 7 41.4 44.4 44.7 45.1 4 . 4 45.4 45.4 45.4 45.4 46.1 67001 27.8 41.4 31.2 32.9 40.7 45.8 GΕ 5000 L 28.5 71.5 40.3 41.4 42.0 45.1 45.4 46.1 46.1 46.1 46.1 46.1 46.8 33.6 36 . 6 GE 45UF 28.8 4109 29.5 32.2 33.9 36.9 40.3 41.7 41.7 41.7 42.4 45.4 45.8 46.1 44.4 46.4 46.4 46.4 46.4 47.1 46.8 42.4 46.4 48.8 44.7 48.1 40.0 48.8 4 A . A 48 A 49.5 47.5 49.5 50.2 37001 30.5 74.5 39 . 3 42.4 44.1 45.4 48.5 48.8 49.5 49.5 49.5 2500| 41.0 2703| 42.7 1800| 43.7 ЬF 4 6, • 4 4 A + 5 5 C + S 51.9 56.3 59.0 60.7 63.7 64.4 64.7 65.4 65.4 66.1 66.1 66.1 66.8 62.7 66.4 67.5 68.1 69.2 73.9 GF 53.3 59.3 65.8 66.8 68.1 68.1 68.8 40.5 53.9 61.0 6°.5 68.5 49.5 51.5 54.9 62.C 66 · 8 67.5 67.8 69.2 69.2 69.6 70.8 71.5 17001 45.1 53.2 56.6 63.7 65.4 68.5 69.2 69.5 70.8 υE 50.4 61. 3 91.2 62.3 60.5 91.2 1 001 49.5 87.5 Ŷ0.5 91.5 92.2 76.6 62.4 73.6 73.6 96.1 86.1 88.1 97.8 92.2 GΕ 4.9. 3 67.8 76.9 81.0 99.5 41.2 92.2 92.2 92.9 89.5 FOO! 49.5 59.3 81.5 97.9 92.2 92.9 67.8 91.2 76.9 93.6 U.S. 1031 49.5 1, 2 , 3 62.4 67.3 73.6 76.9 81.7 86.8 88.8 90.5 91.9 91.9 91.9 94.6 4001 50.2 03.6 94.9 95.6 ٦ŗ 82.7 97.8 89.9 91.5 94.9 4,3.3 63.4 68.3 74.6 78. û funt 50.2 GF 6 1. 3 92.9 94.9 94.9 95.6 53.4 68 . 3 74.0 78.G 82.7 87.8 89.8 91.5 93.6 94.6 463| 57.2 186| 57.2 200| 57.2 83.4 84.4 84.7 67.3 89.5 91.5 63.4 74.6 75.3 94.6 94.6 96.3 97.3 υF 68.4 78.6 95.3 96.6 96.6 ·. F 69.3 46.6 97.6 98.0 98.0 63.7 75 • 6 93.2 95.3 50.3 69.5 30. U 98.6 υE 63.7 75.6 84.7 91.2 ¥3.2 94.9 94.1 26.9 98.3 99.3 100.0 11 50.2 υE 6.7.3 53.7 69.5 75.6 80.0 84.7 91.2 93.2 94.9 96.3 76.9 98.3 99.3 99.3 100.0

TOTAL NUMBER OF OFSERVATIONS: 295

.....

GLOSAL CLIMATOLOGY SRANCH USAFETAC

PENCENTAGE FREQUENCY OF OCCURPENCE OF CEILING VIKSUS VISIBILITY FROM FOURLY OBSERVATIONS

ATR WEATHER SERVICE/MAC

STAT	IION N	UMBER:	221137	51411	ON NAME	: MURM	ANSK US	S R				PER100		PD: 77.		2159-23	an
	LING	• • • • •	• • • • • •	• • • • • • •	• • • • • • •	• • • • • •				FUNDREDS			• • • • • • •				••••••
1133		6.1	GE	GE	GE	GE	GΕ	9121816	177 174 1 GE	FENDRED: GE	5 (17 FE	icks (E	GE	G£	GF	GE	GE
FEE		16 ^	91.	8.5 8.5	6 î	48	4.5	32	2.4	50	16	17	10	۹.	5	0.5	0.
							_		-			-			-		• • • • • • • •
							_	•									
NO (CEIL I	19.7	21.7	22.7	25.1	28.1	25.4	30.1	32.4	33.1	33.6	37.P	34.1	34.1	34.1	34.1	34.1
OF.	cerual	21.9	23.7	24.7	27.1	37.1	31.8	32.4	34.8	35.5	36.1	36.1	36.5	36.5	36.5	36.5	36.5
υE :	100081	21.4	23.7	24.7	27.1	30.1	31.8	32.4	34.5	35.5	36.1	36.1	36.5	36.5	36.5	36.5	36.5
6 F.	161001	21.4	23.7	24.7	27.1	30.1	31.8	32.4	34.8	35.5	36.1	36.1	36.5	36.5	36.5	36.5	36.5
GE I	140001	21.4	23.7	24.7	27.1	37.1	31.8	32.4	34.8	35.5	36 • 1	36.1	36.5	36.5	36.5	36.5	36.5
5 E 1	120001	11.4	23.7	24.7	27.1	30.1	31.8	32.4	34.8	35.5	36 • 1	36.1	36.5	36.5	36.5	36.5	36.5
GE 1	100001	23.8	54.1	35.1	37.5	40.5	42.1	43.1	46.2	46.8	47.8	47.8	48.2	48.5	48.5	48.5	48.5
	91601		34.1	35.1	37.5	40.5	42.1	43.1	46.2	46.8	47.8	47.9	48.2	48.5	48.5	48.5	48.5
	80001		34.1	35.1	37.5	43.5	42.1	43.1	46.2	46.A	47.8	47.9	49.2	48.5	48.5	48.5	48.5
GE	70001	19.A	24.1	35.1	37.5	40.5	92.1	47.1	46.2	46.8	47.8	47.A	49.2	48.5	48.5	48.5	48.5
úΕ	60001		34.1	35.1	37.5	40.5	42.1	43.1	46.2	46.B	47.8	47.8	48.2	48.5	48.5	48.5	48.5
6 E	50001	23.8	34.4	35.5	37.6	47.8	42.5	43.5	46.5	47.2	48.2	48.2	49.5	48.9	48.8	48.8	48.8
	45 . 01		34.8	35.9	38 . i	41.1	42.8	43.8	45.B	47.5	48.5	48.5	48.8	49.2	49.2	49.2	49.2
6.5	47301		36.5	37.5	43.1	43.1	44.8	45.8	48.8	49.5	50.5	50.5	57.8	51.2	51.2	51.2	51.2
	35001		36.5	37.5	43.1	43.1	44.8	45.8	48.8	49.5	50.5	50.5	53.8	51.2	51.2	51.2	51.2
υĒ	scaci		37.1	38.5	41.1	44.1	45.8	46.8	49.8	50.5	51.5	51.5	51.8	52.2	52.2	52.2	52.2
G E	25561	32.8	46.0	49.2	52.6	56.5	58+5	59.5	62.9	64.2	65.2	6t.2	65.9	66.6	66.6	66.6	66.9
GF	21001	47.8	48.5	50.2	55.2	58.9	60.9	61.9	65.2	66.6	67.6	67.6	68.2	68.9	68.9	68.9	69.2
υE	15021	42.1	47.8	51.5	56.5	67.2	52.2	63.2	66.5	67.9	68.9	60.9	69.6	70.2	73.2	70.2	76.6
., E	1500]	47.1	51.2	52.3	57.9	61.5	63.5	64.5	67.9	69.2	70.2	70.2	70.9	71.6	71.6	71.6	71.9
υE	1,501	44.5	54.5	51.5	67.6	71.6	74.9	77.6	82.3	84.5	P7.3	80.0	89.0	89.6	89.6	89.6	90.0
6 E	11 601	49.2	59.2	62.5	Ó8.b	12.9	76.3	79.9	B 3 • 6	86.0	98.6	80.3	95.3	91.3	91.0	91.0	91.3
6 E	9 301	49.5	59.5	52.9	68.9	73.2	76.6	79.3	93.9	86.3	99.0	89.6	20.6	91.3	91.3	91.3	91.6
GE	P = 0 1	49.5	59.5	62.9	69.2	73.6	76.9	79.6	84.3	86.6	#9.6	90.3	91.3	92.3	92.0	92.0	92.3
J.	7001	49.5	63.2	63.5	70.6	75.3	78.6	81.3	86.0	88.3	91.3	97.7	73.0	93.6	93.6	93.6	94.0
FE	6371	49.P	62.5	63.,	71.2	75.9	79.3	81.9	86.6	89.3	72.0	9:.6	93.6	94.3	94.3	94.3	94.6
_Ն ೯	Sect	47.8	60.9	64.2	71.6	7€.€	79.9	87.3	85.0	90.3	03.3	94.7	95.0	95.7	95.7	95.7	96.0
υE	4601	5	61.5	54.9	74.6	77.t	60.9	84.3	89.3	91.6	94.6	95.3	96.7	97.3	97.3	97.3	97.7
GΕ	süc i	SO. A	61.4	55.2	72.9	78.3	91.6	84.7	93.0	92.3	95.7	94.7	97.7	98.3	98.3	98.3	98.7
υE	-	57.8	61.9	65.2	72.9	7A . 3	81.6	84.9	90.0	92.3	95.7	96.3	97.7	99.7	99.3	99.3	99.7
GE		50.P	61.9	65.	72.9	78 • 3	81.6	84.9	90.0	92.3	95.7	96.3	27.7	99.0	99.3	99.3	99.7

CE 150.8 61.9 65.2 72.9 74.5 H1.6 84.9 98.8 92.3 95.7 96.3 97.7 99.8 99.3 100.0

TOTAL NUMBER OF OUSERVATIONS: 299

GLOBAL CLIMATOLOGY BRANCH PERCENTAGE FREQUENCY OF OCCURPENCE OF CEILING VERSUS VISIBILITY USAFETAC FROM HOUPLY OBSEPVATIONS ATA WEATHER SERVICE/MAC

STAT	ION N	UMBER:	221130	STATI	ON NAME	: MURM	ANSK US	SR				PERIOD	OF REC	ORD: 77	-86		
												MONTE	: DEC	FOURS	(LST):	ALL	
CEIL	11.6	• • • • •	•••••	• • • • • • •	• • • • • •	• • • • • • •	•••••	VISTBIL	* * * * * * * * * * * * * * * * * * *	HUNG PERS	. ne . mc 1	rpc	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • • • •
In		G T	GE.	GE	G.F.	GE	65	GE	GF	GE	GE.	SE	G٤	GE	GE	GE	GF.
FEE		160	9.0	80	66	46	46	32	2.4	23	16	12	10	8	5	4	0
			• • • • • •						• • • • • • •		• • • • • •		• • • • • •	• • • • • •	• • • • • •	• • • • • •	• • • • • • • • •
NO C	FFL I	16.2	19.2	28.4	22.8	25.6	27.1	28.0	30.0	30.7	31.1	31.3	31.5	31.5	31.6	31.6	31.6
		1012		20.	22.0	2 , 10		20.0	3010				3	,,,,	7	,,,,	J
		17.9	21.3	22.6	25 • 1	29.0	29.5	30.4	32.5	33.3	33.8	37,9	34 • 1	34 • 2	34.2	34.2	34.3
	60 UN		21.3	22.5	25.1	29.3	25.5	30.4	32.5	33.3	33.8	11.3	34 • 1	34 . 2	34.2	34.2	34.3
	60001		21.3	22.6	25 • ∔	29.0	29.5	30.4	32.5	33.3	33.8	37.9	34.1	34.2	34.2	34.2	34.3
5F 1	41021	17.9	21.3	22.6	25 • 1	29.0	29.5	30.4	32.5	33.3	33.€	37.9	74.1	34.2	34.2	34.2	34.3
GE 1	21.00	17.0	21.3	22.6	25 • 1	28.0	29.5	30.4	32.5	33.3	33.8	31.0	34 • 1	34.2	34.2	34.2	34.3
CE 1	unual	25.4	36.3	31.9	34.7	38 • J	39.7	41.0	43.6	44.5	45.2	45.4	45.6	45.7	45.7	45.7	45.8
5€	97001	25.4	7 3 . 3	31.9	34 . 7	39.0	39.7	41.0	43.6	44.5	45.2	4 . 4	45.6	45.7	45.7	45.7	45.8
	8 100 L		30.3	31.9	34 . 7	39 • D	39.7	41.0	43.6	44.5	45.2	45.4	45.6	45.7	45.7	45.7	45.8
	77301		30.3	32 . U	34 . 7	38.0	39.8	41.1	43.7	44.6	45.3	45.4	45.6	45.7	45.8	45.8	45.9
	6nasi		30.3	32.0	34 • 7	38.J	39.6	41.1	43.7	44.6	45.3	4 . 4	45.6	45.7	45.8	45.8	45.9
S E	sanal	25.7	33.6	32.3	35 • 1	39.3	40.1	41.4	44.1	44.9	45.7	45.8	46.3	46.1	46.2	46.2	46.2
	41001		31.1	32.6	35 • 5	38.9	4C.6	41.8	44.5	45.4	46.1	46.2	46.4	46.5	46.6	46.6	46.7
	4030 F		32.4	34.1	37.0	43.2	42.1	43.4	46.1	46.9	47.7	47.B	48.C	48.1	48.2	48.2	48.2
	35 00 L		32.9	34.6	37.5	43.7	42.6	44 • C	46.7	47.5	48.2	42.4	49.6	49.7	48.7	48.7	48.8
	30001		33.6	35.4	38 - 3	41.6	43.4	44.8	47.5	48.4	49.1	49.2	49.4	49.5	49.6	49.6	49.7
	25001		45.4	47.7	51 • 3	55.1	57.7	59.4	62.7	64.0	65.0	65.7	65.6	65.9	56 • J	66.1	66.2
		30.3	47.4	49.7	53.4	57.3	59.8	61.6	64.9	06.3	67.3	67.6	67.9	58.2	f-8 • 4	68.4	68.6
	15001		48.9	51.2	54.9	58.8	61.4	63.2	66.4	67.9	68.9	ნ9•1	69.5	69.9	69.9	70.0	70.2
	1565		53.5	52.0	56.0	63.5	63.1	64.9	66.1	09.6	70 • 6	77.9	71 • 2	71.5	71.7	71.7	71.9
G E	12001	46.7	56.5	61.7	66.6	12.2	76 • C	79.1	83.9	86.3	*8. 3	80.3	87.9	90.6	71.0	91.1	91.3
L F	17001	47.4	r9.4	62.6	67.5	73.3	77.2	80.3	95.1	67.6	A9.5	97.3	91.1	91.8	92.3	92.4	92.6
GE	9001	47.8	59.9	63.1	66.2	73.9	77.8	80.9	85.7	88.2	90.1	90.9	91.8	92.4	72.9	93.0	93.2
Uξ	3001	45.C	60.1	63.3	66.5	74.2	78.1	81.2	86.1	88.5	90.5.	91.3	92.1	92.8	93.3	93.4	93.6
65	7001	48.3	65.8	54.€	69.4	75.3	79.3	82.6	87.5	90.0	92 • C	92.9	93.8	94.4	95.0	95.1	95.3
U.F.	6001	45.5	61.G	54.3	69.9	75.8	79.8	83.2	88.1	95.6	92.6	97.4	94 . 4	95 • 1	95.6	95.7	95.9
G.E	50,1	48.5	£ 1 • 1	64.5	70.3	76.0	80.1	83.5	88.5	91.9	93.0	97.9	94.8	95.4	96.0	96.1	96.3
GE		48.6	61.3	64.7	73.3	75.3	86.5	84.0	89.5	92.1	94.1	91.2	96.2	96.9	97.4	97.5	97.7
G.E		48.€	61.4	64.0	70.4	76.6	80.9	84.4	90.2	92.9	95 . 1	96.1	97.1	97.8	98.3	98.5	98.7
Č.		48.6	1.4	64.6	73.4	76.6	80.9	84.5	90.3	92.9	95.2	96.2	97.2	98.3	99.1	99.2	99.5
ĞE		48.0	61.4	64.8	70.4	76.6	86.9	84.5	90.3	92.9	95.2	96.2	97.2	99.3	99.3	99.5	99.8
6 E	1	46.6	/1.4	64.8	70.4	76.6	80.9	84.5	90.3	92.9	95.2	94.7	97.2	98.3	99.3	90.5	100.0
· -	- 1	7 13	. 7 . 4	9710	10.4	10.0	00. 9	04.0	40.3	76.7	73.2	7	71.2	70 . 3	-7.3	77.5	

GLOBAL CLIMATOLOGY BRANCH USAFETAC AIR MEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOUPLY OBSERVATIONS

STATION NUMBER:	221130	STATI	ON NAME	: พบสห	ANSK US	SR				PEHIOD MONTH		ORD: 77	-87 (LST):	ALL	
	• • • • • • •	• • • • • • •	• • • • • •	• • • • • • •							• • • • • • •	• • • • • •	• • • • • •	• • • • • •	• • • • • • • • •
CEILING	SF	GE	GE		65	QE ATZIBIC	LIT LN	HUNDREDS GE	GE GE	UE N.		c r	GE	GE	GE
IN 6T FEET 160	3 C	95	60	GE 48	4 C	32	24	23	16	1.2	10 8	GE e	υ: 5	4	0
									_						
••••	••••											. , , , , , , ,	• • • • • •		
NO CEIL 27.4	22.7	23.4	74.3	25.2	25.9	26.3	26.€	27.1	27.3	27.4	27.5	27.6	27.6	27.6	21.6
65 200001 23.1	25.7	26.4	27.4	28.4	29.1	29.6	30-1	33.4	30.6	3^.7	30.8	30.9	30.9	30.9	31.0
UE 16000 € 23•1	25.7	26.4	27.4	28.4	29.1	29.6	33.1	30.4	30.€	30.7	30.8	30.9	20.9	30.9	31.0
GE 167001 23.1	25.7	26.4	27 • 4	28.4	29.1	29.6	30.1	30.4	30.6	3~.7	30.8	30.9	70.9	30.9	31.0
65 14 JOL 23.1	25.7	26.4	27.4	28.4	29.1	29.6	30.1	37.4	30.6	3~.7	33.6	30.9	30.9	30.9	31.0
05 1200ml 23.1	25.7	26.4	27.4	26 • 4	29.1	29.6	35.1	30.4	30.6	3 " • 7	30.6	30.9	33.9	30.9	31.0
GE 100001 32.7	36.6	37.5	38 • 9	47.1	41.2	41.8	42.7	43.1	43.4	47.5	43.6	43.7	43.7	43.7	43.8
6E 97001 32.7	76.6	37.6	38.9	40.1	41.2	41.8	42.7	43.1	43.4	4 2 . 5	43.6	43.7	43.7	43.7	43.8
55 acoul 32.7	30.0	37.6	38 • 9	40.1	41.2	41.8	42.7	43.1	43.4	47.5	43.6	43.7	43.7	43.7	43.6
6E 77601 32.7	76.6	37.6	38.9	40.2	41.2	41.8	42.7	43.1	43.4	4 7 5	43.6	43.7	43.7	43.8	43.8
05 67631 32.°	76.7	37.6	39.0	40.2	41.3	41.9	42.7	43.2	43.5	4 7 . 5	43.7	43.8	43.8	43.8	43.9
0. 0 601 52.	- 6.17	37.40	37.0	7072	7413	• • • •	72.	43.6	4343	7 • 7	43.1	-3.0	43.0	43.0	7347
GE 50 UD1 33.4	17.3	38.3	39.6	40.9	41.9	42.5	43.4	43.9	44.1	44.2	44.4	44.5	44.5	44.5	44.5
GE 45151 33.9	37.8	39.6	40.2	41.4	42.5	43.1	44.0	44.4	44.7	40.8	44.9	45.7	45.3	45.C	45.1
GE 40001 37.5	41.7	42.7	44.2	45.4	46.5	47.2	48.1	48.5	48.8	48.9	47.6	49.1	49.2	49.2	49.2
UE 35001 39.5	42.8	43.3	45.2	46.5	47.6	48.2	49.1	49.6	49.9	50.7	52.1	50.2	50.2	50.3	50.3
GE 30001 39.8	44.2	45.3	46 . 7	48.0	45.1	49.8	50.7	51.1	51.4	5: .5	51.6	51.7	51.8	51.8	51.8
															-
GE 25001 53.6	60.1	61.5	63.4	65 · ú	66.5	67.3	68.5	69.3	69.6	67.7	69.9	70 • 1	70.1	70.1	70.2
GE 20001 55.7	62.4	63.6	65 • à	67.4	66.9	69.8	71.0	71.7	72.C	72.2	72.4	72.5	72.6	72.6	72.7
5E 195J[56.7	£ 3.0	65.3	67.J	68.0	76.1	71.0	72.2	72.9	73.3	7 3 . 4	73.6	73.8	73.6	73.9	73.9
0f 1500 58.3	65.5	66.9	69.0	75.6	72.2	73.1	74.3	75.1	75.4	7 . 6	75.8	75.9	75.9	76.0	76.0
GE 10001 66.0	75.9	77.8	86.7	63.1	£5.3	86.7	98.7	90.0	90.8	91.0	91.4	91.7	91.8	91.9	92.0
SE 19801 67.0	77.3	19.3	82.2	84.7	87.0	88.4			-2.5		07.0	07.5	07.4	93.6	93.7
06 1.001 67.4 06 9001 67.4	17.9	79.9	83.0	85.5	57.8		90.4	91.8	92.5	90.4	93.2	93.5	93.6	94.5	94.6
UF EUC 57.7	75.4		-			89.2	91.3	92.6	93.4	93.7	94.1	94.4	94.5		
6F 7071 68.1	73.2	60.4	93.6	86.1	P8.4	89.9	91.9	93.3	94.1	94.4	94.7	95,3	95.2	95.2	95.3
GE 7.51 69.2	79.4	51.4	94.6	87.2	89.7	91.1	93.3	94.7	95.5	95.4	96.2	96 • 5	90.7	96.7	96.8
UC C. 1 0542	79.4	51.6	85.J	67.7	70.1	91.6	93.8	95.3	96 • 1	96.4	96.8	97.1	97.2	97.3	97.3
56 1071 6842	79.6	81.8	85.2	87.9	90.4	91.9	94.1	95.5	96.5	96.9	97.2	97.5	97.6	97.7	97.7
F 4031 64.7	77.7	32.0	95.5	88.2	8 ورا ۶	92.4	94.7	96.2	97.2	97.5	97.9	98.2	98.4	98.4	98.5
UE 7401 64.3	79.7	32.0	85 • 5	88.3	96.9	92.5	94.9	96.5	97.5	97.8	98.2	98.5	98.7	98.7	98.6
uf 2001 61.3	79.8	52.1	F5 6	88.4	91. G	92.6	95.C	76.6	97.5	97.9	99.3	98.9	99.2	99.3	99.3
66 1.01 69.3	79.8	87.1	85 • 6	89.4	91.C	92.6	95.0	96.6	97.6	97.9	98.4	99.0	99.4	99.5	99.8
									-			•			
CF 71 65.3	79. á	32.1	95 a o	88.4	91.0	92.6	95.0	96.6	97.6	97.9	98.4	99.D	99.4	99.5	100.0

USAFETAC AIR «FATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURPENCE OF SKY COVER FROM HOURLY OBSERVATIONS

STATICH NUMBER: 201130 STATION NAME: MURMANSK USSR PERIOD OF RECORD: MAL : HTMON PERCENTAGE FREQUENCY OF LENINS OF TOTAL SKY COVER HOUPS | (LST) | TOTAL r 3 4 5 3 9 1 2 6 7 10 MEAN 085 294 00-02 | 7.8 3.7 C3-C5 | 15.0 1.7 7.3 4.3 . 7 4.7 6.0 30.3 28.0 6.9 300 56-08 | 15.5 2.4 7.9 1,4 2.4 6.2 28.1 292 30.1 6.8 69-11 | 13.ū 3.7 9.3 6.3 • 7 3.3 9.0 29.7 25.0 6.7 300 12-14 | 7.3 4.5 8.3 7.3 2.8 38.8 7.4 289 • 7 4.6 25.6 15-17 | 6.8 3.9 7.4 6.5 2.3 5.8 8.4 37.5 21.4 7.2 309 18-20 1 13.1 4.7 16.1 7.1 1.0 6.1 5.7 32.4 22.6 6.7 296 21-23 | 14.3 £ .6 7.5 4.9 1.3 4.2 6.5 31.8 26.9 6.8 304 TOTALS ! 12.2 3.2 8.2 5.1 31.9 2388

21130 ST	ATION NAME	: MURMANSK USSR						: CORD:	78-87		
ſì	1	PERCENTAGE 2 3	FREQUE	NCY OF T	ENTHS OF	TOTAL SKY	COVER	9	10	MEAN	082 1017
13.5	3 . C	9, 7	3.0	. 7	5.6	• • • • • • • • • • • • • • • • • • • •	7.9	34.2	23.0	6.8	269
17.6	2.9	6.1	3 • 2	. 4	4.7	1	6.4	33.0	21.5	6.6	279
17.2	2.2	7. 3	3.6	1.5	2.2	1	2.7	28.1	27.0	6.7	274
7.3	5.5	10.6	1.8		4.7		6.9	40.5	22.6	7.2	274
5.7	5 • 3	8.2	4.3	1.8	6.8		9.3	38.6	19.9	7.2	281
6.9	4.3	9.7	5.1	1.4	6.1		7.2	41.5	17.7	7.1	211
6.9	5 - 1	6 • 2	6.2	. 4	3.6	. 1	2.0	36.1	23,4	7.3	274
17.8	2.9	5 • 1	6 • 2	. 7	5.1		7.2	34.1	21.0	6 • 5	216
11.5	3.9	7.9	4.2	. 7	4.0	,	G	35.8	22.0	6.9	2204
	13.J 17.6 17.2 7.3 5.7 6.9 6.9	1 13.J 3.C 17.6 2.9 17.2 2.2 7.3 5.5 5.7 5.3 6.9 4.3 6.9 5.1 17.8 2.9	PERCENTAGE 1 2 3 13.0 3.0 9.7 17.6 2.9 6.1 17.2 2.2 7.5 7.3 5.6 10.6 5.7 5.3 6.2 6.9 4.3 9.7 6.9 5.1 6.2 17.8 2.9 5.1	PERCENTAGE FREQUE 10 1 2 3 4 13.0 3.0 9.7 3.0 17.6 2.9 6.1 3.2 17.2 2.2 7.5 3.6 7.3 5.5 10.6 1.8 5.7 5.3 6.2 4.3 6.9 4.3 9.7 5.1 6.9 5.1 6.2 6.2 17.8 2.9 5.1 6.2	PERCENTAGE FREQUENCY OF TO 1 2 3 4 5 13.0 3.0 .7 17.6 2.9 6.1 3.2 .4 17.2 2.2 7.5 3.6 1.5 17.3 5.5 10.6 1.8 5.7 5.3 8.2 4.3 1.8 6.9 4.3 9.7 5.1 1.4 6.9 5.1 6.2 6.2 .4 17.8 2.9 5.1 6.2 .7	PERCENTAGE FREQUENCY OF TENTES OF O 1 2 3 4 5 6 13.0 3.0 9.7 3.0 .7 5.6 17.6 2.9 6.1 3.2 .4 4.7 17.2 2.2 7.5 3.6 1.5 2.2 7.3 5.5 10.6 1.8 4.7 5.7 5.3 8.2 4.3 1.8 6.8 6.9 4.3 9.7 5.1 1.4 6.1 6.9 5.1 6.2 6.2 .4 3.6 17.8 2.9 5.1 6.2 .7 5.1	## PERCENTAGE FREQUENCY OF TENTES OF TOTAL SKY O	## MONTH: FEB PERCENTAGE FREQUENCY OF TENTES OF TOTAL SKY COVER	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER O 1 2 3 4 5 6 7 8 9 13.3 3.0 9.7 3.0 .7 5.6 7.8 34.2 17.6 2.9 6.1 3.2 .4 4.7 16.8 33.0 17.2 2.2 7.3 3.6 1.5 2.2 10.9 28.1 7.3 5.5 10.6 1.8 4.7 6.9 40.5 5.7 5.3 6.2 4.3 1.8 6.8 9.3 38.6 6.9 4.3 9.7 5.1 1.4 6.1 7.2 41.5 6.9 5.1 6.2 6.2 .4 3.6 17.0 76.1 17.8 2.9 5.1 6.2 .7 5.1 7.2 34.1	PERCENTAGE FREQUENCY OF TENTES OF TOTAL SKY COVER 0 1 2 3 4 5 6 7 8 9 10 13.0 3.0 9.7 3.0 .7 5.6 7.8 34.2 23.0 17.6 2.9 6.1 3.2 .4 4.7 16.8 33.0 21.5 17.2 2.2 7.3 3.6 1.5 2.2 10.7 28.1 27.0 7.3 5.5 10.6 1.8 4.7 6.9 40.5 22.6 5.7 5.3 8.2 4.3 1.8 6.8 9.3 38.6 19.9 6.9 4.3 9.7 5.1 1.4 6.1 7.2 41.5 17.7 6.9 5.1 6.2 6.2 .4 3.6 17.0 76.1 23.4 17.8 2.9 5.1 6.2 .7 5.1 7.2 34.1 21.0	PERCENTAGE FREQUENCY OF TENTES OF TOTAL SKY COVER O 1 2 3 4 5 6 7 8 9 10 MEAN 13.0 3.0 9.7 3.0 .7 5.6 7.9 34.2 23.0 6.8 17.6 2.9 6.1 3.2 .4 4.7 16.8 33.0 21.5 6.6 17.2 2.2 7.3 3.6 1.5 2.2 10.9 28.1 27.0 6.7 7.3 5.5 10.6 1.8 4.7 6.9 40.5 22.6 7.2 5.7 5.3 8.2 4.3 1.8 6.8 9.3 38.6 19.9 7.2 6.9 4.3 9.7 5.1 1.4 6.1 7.2 41.5 17.7 7.1 6.9 5.1 6.2 6.2 .4 3.6 12.0 7.2 34.1 21.0 6.5

PERCENTAGE FREQUENCY OF OCCURRENCE OF SKY COVER FROM FOURLY OBSERVATIONS

GLOBAL CLIMATOLOGY BRANCH USAFETAC AIR WEATHER SERVICE/MAC

STATION NUMBER:	221130	STATI	ON NAME:	₩Ę RI	ANSK LSSR				ODI 939 HTWOM	MAR		7R-87		
HOUPS (LS1)		5	i	2	PER CENTAGE	FREQUE	NCY OF TE	NTHS OF	TOTAL SKY		9	10	MEAN	TOTAL
f.b-b5	1 19	5.2	1.5	••••	t.6	5.9	1.0	5.6	• • • • • • • • • • •	6.3	33.7	24.9	6 • 8	303
03-05	1 19	5.3	1.6		7.8	6.2	. 3	4.2		6.8	26.7	31.3	6 • 8	157
υ έ − Γ β	1 11	1.5	2 • 3		10.5	4.3	1.6	1.6		7.9	29.3	30.9	7 • 0	304
09-11	, ,	3.1	5.5		6.5	3.9	1.0	5.5		6.2	38 • 0	25.3	7 • 2	308
13-14	1 4	9.3	£ . 7		7.7	4.3	1.0	6.0		0.3	38 • C	21.0	6 • 9	300
15-17	f 12	1 - 1	3.9		6.2	6.2	1.0	5.2		11.6	30.4	24.2	6.9	306
19-10	1	9.2	5.2		10.5	4.9	1.0	5.2		7.5	32.4	24.2	6.9	306
21-23	1 1.	5	3.6		9.4	6 • 2	1.0	3.2		4.4	33.1	21.8	6.7	308
TUTALS	1 11	1.5	3.7		8 • 2	5 • 2	G.1	4.6		7 • 7	32.7	75.4	6.9	2442

STATION NUMBER:								PER10U MONTH	: APE		78-87		
HOURS (LST)	ı	J	1					TOTAL SKY			10	MEAN	TOTAL OBS
:z-c2	1 8	7	7.3	11.1	3.5	1.0	3.1		6.J	34.3	23.2	6.8	289
03-05	1 7	7.J	٤.٥	12.1	2 • 3	• 3	3.7		7.4	34.6	27.5	7 • 2	298
16-58	} 4	1.1	4.1	7.2	2.4	. 3	3.8		4.2	41.3	27.6	7.8	293
59-11	1 5	. 3	4.4	10.2	4.1	1.0	5.4		10.2	35.3	23.7	7.2	295
17-14	1 2	. 8	4.8	10.3	4.8	1.3	4.1		9.7	40.3	22.1	7.5	290
15-17	1 !	3.7	4.4	7.7	5.4	1.7	8.1		11.1	41.1	16.8	7 - 3	297
15-50	1 3	5.4	3.8	7. 2	8.6	3 • 1	5.5		12.1	32.8	23.4	7.3	290
21-23	1 5	. 7	£ • 4	10.7	2.0	2 • 0	4.7		10.7	32.2	25.5	7.2	298
TOTALS	1 5	.2	5.0	9.6	4.1	1 • 3	4.н		9.8	36 • 5	23.7	7 • 3	2350

GLOBAL CLIMATOLOGY BRANCH USAFETAC AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURPENCE OF SKY COVER FROM HOURLY OBSERVATIONS

STATION NUMBER: 221130 STATION NAME: MURMANSK USSR

PERIOD OF RECORD: MONTH: MAY PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER HOLRS | TOTAL 5 3 1 2 6 9 10 MEAN 00-92 | 085 7.6 2.3 7.2 35.5 31.3 5.3 9.5 1.0 4 ل 3 3 • 3 4.6 307 C3-05 1 1.3 2.9 34.5 5.2 6.8 4.6 6.5 36.2 8.0 306 C6-L8 | 5.9 3.9 5.9 2.3 . 3 2.9 4.9 38 . 2 35.6 7.9 69-11 | 4.6 3.5 7.2 3.0 . 3 3.0 4.9 37.4 35.7 7.9 305 12-14 | . 7 2.6 7.2 41.5 29.7 7.9 3 3 6 15-17 1 3.3 3 . 3 4.3 1.0 3.3 11.3 43.0 76.2 8.0 302 18-22 | 5.3 2.7 9.7 2 19 4.3 6.7 1.7 39.5 27.8 7.6 3.0 6.9 21-23 1 3.9 6.0 7.7 5.2 1.0 38.6 .7.5 2.6 4.6 306 TOTALS 1 4 . t 3.9 . 9 3.0 38.5 71.3 7.9 2435

STATION NUMBER:	221137	STATIO	ON NAME:	MURM AN S	K USSR					OU OF REI	CORD:	78-87		
10UPS (LST)	•	າ	1	PERC 2	ENTAGE 3	FREQUENCY	n F	TENTHS OF	TOTAL S	KY COVER	9	12	MEAN	TOTAL
Un-62	2	.7	4.1		9,8	3.7	. 3	3.0	• • • • • • • •	7.4	43.2	25.7	7.7	296
£₹ - 0\$	1 2	• 7	4.8		8.9	2 • 7	. 7	5.5		7.2	18.2	29.4	7.7	293
68	1 2	. 7	5 • 1		3. 4	4.1	• 3	3 • 1		b • 3	36.9	35.6	8 - 1	295
19-11	1 2	. 7	1.4		5.1	2.4	1.0	3 • 4		16.2	41.6	٠2 - 1	8.3	293
12-14	1 2	.4	2 • 4		5.1	1.7		3 • 1		12.9	43.5	28.9	8 • 3	244
15-17	1	. 7	1.4		5 • 8	4.1	. 3	5 • 1		12.2	43.5	25.9	8.2	294
18-50	1 2	. 4	4 . 4		5.4	5.1	2 . J	4 . 7		11.1	39.5	25.3	7.6	296
21-23	1 2	. 7	6 • 1		7.1	3 • 1	1.7	5 • 1		€.1	40.3	27.8	7.7	295
TOTALS	-	• 5	3 . 7		6.3	3.4	• 6	4-1		¢.5	47.8	28.8	6.0	2356

GEGRAL CLIMATOLOGY BRANCH LSAFETAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SMY COVER FROM HOURLY OBSERVATIONS

AIR WEATHER SERVICE/MAC STATION NUMBER: 221133 STATION NAME: MURMANSK USSR PETIOD OF PECOPD: 78-87 MONTH: JUL PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER FOUPS | 101AL 085 2 3 5 6 9 10 MEAV 306 00-02 l 7.4 0.5 53-05 1 8.7 • 3 4.5 8.4 34 • 0 30.4 3 .. 9 36-58 | 33.9 73.9 7.7 307 C9-11 [9.4 5.2 6 . 8 • 3 72.8 36.7 7.9 2.6 3 n B 12-14 | 4.5 4.2 5.9 2.6 . 7 3.3 12.7 37.9 28.1 7.8 306 15-17 | 3.9 ... 7.5 3.6 1.6 3.9 10.5 41.5 24.5 7.7 306 18-20 1 3.0 9.5 37.4 25.9 1.2 3.9 1.3 4.6 8.2 7.5 305 21-23 | 4 . 6 9.8 5.6 3.6 . 7 3.0 7.9 39.7 25.2 7.3 305 TOTALS | 4.5 5.8 6.9 3.6 . 7 3 . 8 9.0 36 • 8 28.9 7.6 2452

STATION NUMBER: 2	21130 51	TATION NAME	: * UR	MANSK LSSR				PEP10D MONTH		CORD:	7 9 - 8 7		
110UFS (LST)	3	1	2	PER CENTAGE	FREQUEN	ICY OF T	ENTHS OF	TOTAL SKY	COVER	9	10	MEAN	TOTAL
*c~c2	3,0	5.6	• • • • • •	ь . 3	2.0	. 7	4.3	• • • • • • • • • • •	7.3	41.4	27.5	7.7	302
07-05	2.6	3.6		7.9	4.6	. 7	2.6		h • 6	43.6	28.7	7.9	303
06-08 T	3.6	2.3		7.2	1.6	. 7	4.9		6.9	40.8	32.0	8.1	306
59~11 1	3.9	3.3		4.2	2 • 3	1.3	1.6		6 . A	49.9	28.0	8.1	307
17-14 4	3.6	3.3		3. 3	2.6	1.3	2.6		7.2	51.3	24.8	8.1	306
15-17	2.3	2.3		4.6	2.6	1.3	3.3		6.6	55.6	19.3	8 • 2	306
19-20]	2.3	3.3		6. 9	1.7	1.3	3.3		16.6	52.1	18.5	6.0	303
21-23	2.9	4.2		4.6	5.9	. 7	3 . 3		11.4	44.6	22.5	7.8	367
TUTALS	3.)	1.5		5.9	2.9	1.0	3 • •	•	٤.5	46.9	25.2	8.3	2440

ULUBAL CEIMATCLOGY ⊇RANCH USAFETAC AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SMY COVER FROM HOURLY OBSERVATIONS

bEclon	Ct	RECORD:	77-96
MONTH		· p	

STATION NOWHER:	2/1131	STAILE	N NAME:	MURM AN SK	C USSR				MONTH	: 58P	0 8 0 :	77-46		
<u> </u>	•	g	1	PERCE 2	LyTAGE 3	FREULENI 4	CY OF TE	NTHS OF	TOTAL SKY	COVER	9	18	MEAN	TOTAL Obs
ra-85	1 7	.2	3.i		4.5	3 • 1	1.4	3.8		6.2	41.8	29.1	7.7	292
67-05	1 9	•5	3.4	4	4.8	1 • 7		3.4		4.5	41.5	21.2	7.6	294
ce-na	1 3	•2	2.5	3	3 • 5	. 7		1.6		5.3	48.9	34 + 2	8 • 5	284
(9-11	1 3	•1	1.4	3	3. 1	2.7	. 7	2 • 7		4.4	47.5	32.5	8.5	295
12-14	1 .	•1	2.2	4	+• 7	2.9	1.5	1 • 8		5 • 8	51.5	28.5	8.4	214
15-17	1	٠	ž •4	3	3.1	1.7	1.0	3.1		7.5	94.1	?6.2	8.5	294
18-20	1 1	• B	1 - 1	5	5.0	3.2	. 7	3 • 9		£ . 4	49.3	28,6	8.4	200
41-23	1 3	•3	3.7	•	5 . 0	3 • C		2.0		7.4	46.2	28.8	6.1	299
TOTALS	1 3	.7	2•5		4 • 3	2.4	• 7	2 • 8		£ • 4	47.9	29.4	6.2	2312

STATION NEP	BER:	201136	51/	TION NAME:	мс	RMANSK USSR					OD OF RE	CORD:	77-86		
	10UPS		С		· · · · · · · · · · · · · · · · · · ·	PERCENTAGE	F REQUE	NCY OF TE		TOTAL S			10	MEAN	TOTAL 085
	0-02	1	7.3	1.7	• • • •	4. C	3.0	. 3	5.C	• • • • • • •	7.3	36.3	?5•a	7.9	300
(3+05	ı	5.2	1.3		5.6	3.3	. 3	3.3		5.4	₹6•6	38.6	8 • 1	306
	(6-0a	1	4.0	4.3		6.4	2.0	. 3	2 • 3		5.4	37.1	38.1	8 • 1	299
:	7-11	I	1.7	2.5		5.6	• 3	. 7	1.3		3.6	43.2	41.6	8.7	303
1	2-14	ſ	2.5	3.6		4.8	2.7	• 3	1.7		7.2	46.8	30.7	я, 3	293
1	5-17	1	2.3	3.6		6.1	2.0	1.0	2.9		4.6	42.3	33.6	8.1	307
2	32-8	1	4 • 1	4 • 1		5.4	3.1	1.0	1 • 4		6.1	18.4	76.4	6.0	294
:	1-23	1	6.5	2.3		5.9	3 • 3	1.6	4.2		7.8	32.7	35.6	7.8	306
10	TALS	1	4.1	2.9		5.7	2.5	. 7	2.8		€.0	39.2	36.2	8.1	2408

GEDWAL CLIMATCLOGY PRANCH USAFETAC AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SKY COVER FROM FOURLY OBSERVATIONS

STATION NUMBER:	22113.	. ST	MICH NAME:	MU	RMANSK USSR				MON.	OU OF PE	-	77-86		
Faurs 11231	1		1	2	PERCENTAGE 3	F HE QUE						10	MEAN	1014L 085
√0÷02	1	3.3			5. 5	4.6	1. J	4.1	•••••	7.5	28.2	37.5	7.6	291
L (+05	ł	9.6	3.1		6.5	2.4	. 7	2 • 1		7.6	27.8	43.2	7.5	291
F + - C &	t .	9.7	3 • 1		4.1	1.4	1.7	2.1		5 • 6	12.8	36.6	7.7	290
_9-11	ſ	4.4	2.4		6.5	2.4	1.0	4.1		£ • ñ	36.1	34.4	8.0	294
12-14	1	1.7	ž •4		6.9	2.1	1 - 4	3 • 1		9.6	43.2	45.6	8.2	2 4 1
15-17	(.	5.)	3 • C		7.4	3.4	1.7	3.3		6.4	17.5	74.5	8.0	296
14-20	ı	7 - 1	2.4		6.1	3.4	. 7	6.4		£ .4	32.8	14.8	7.7	296
21-23	ı	9.,	1 • 7		7.1	4.7	. 7	3.4		7 - 1	29.6	36.7	7.6	297
TOTALS	1	6.7	2.5		6.3	3 • 1	1 - 1	3 + 5		7 • 8	33.1	35.9	7.8	2346

STATION NUM	PLF:	22113	_ 51	ATTON NAME:	Mυ	RM AN SK USSR					OU OF RE TH: DFC	CORD:	17-86		
	CLRS LS1)	•	9	1	2	PERCENTAGE 3		NCY OF TI	ENTHS OF	TOTAL S	KY COVER	9	10	MEAN	101A£ 085
	0-02	,	15.7	1.3	••••	7. 6	2.6	. 7	4.0	• • • • • • • •	e • 3	30.5	28.1	6.8	302
	, (- 75	í	14.6	9		6+2	3.2	. 6	3.9		9.7	31.5	27.3	7.3	3 D 9
*	5-58	ı	13.1	4.7		8.1	3.7	. 3	5.4		7 • 1	28.3	71+3	7.5	297
,	.9-11	i .	11.3	4.6		5 • 2	3.6	. 3	5.9		7.9	30.8	29.8	7.1	3 0 5
1	2-14	1	6.3	3.5		5 • 3	5.3	1.0	5.6		7.2	33.2	32.2	7.6	304
i	5-17	j	5.5	4.2		9.1	2.3	1.3	3.9		9.7	35.4	28.9	7.5	308
1	P = []	į	11.2	3 • 5		6.9	3.6	1.3	3.3		6.3	35.5	29.3	7.2	304
ä	1-73	ł	15.7	J.3		6.6	3 • 6	1.3	3 • 3		7.9	25.6	33.8	6.9	305
1 (1465	ł	11.7	3.2		6.9	3.5	• 6	4.4		6.3	31.4	30.1	7.1	2433

STOBAL CLIMATOLOGY RPANCH PERCENTAGE FREQUENCY OF SCURRENCE OF SKY COVER USAFETAC FROM FOURLY COST RVATIONS ATRIAL ATRICK SERVICE/MAC

STATLON		OU OF FE TH: ALL	:000	77-87										
	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER HOURS												••••••	TOTAL
	(151)	Ş	1	5	3	4	5	6	7	<u>.</u>	9	10	MEAN	082
JA'.	ALL I	12.	3.2		8 • 2	5 - 1	1.2	4.4	• • • • • • • •	7.9	31.9	25.6	6.9	2368
FLP	1	11.6	3.9		7 • 9	4.2	• 9	4.9		5.0	35.6	55.0	6.9	2204
MAP	1	11.5	3.7		c • 2	5 • 2	1.0	4.6		7 . 7	32.7	25.4	6.9	2447
485	1	5.2	£ •0		9.6	4 - 1	1.3	4.6		* • *	?6.5	23.7	7 • 3	2350
MAY	J	4.5	3.4		6.7	3.9	٠ ٩	3.0		7.7	38.5	?1.3	7.9	2435
JLt.	1	2.5	3.7		6.3	3 • 4	• 9	4 • 1		c • £	43.5	20.8	8.5	2356
Jef	1	4.5	5.0		6.9	3.6	. 7	3 . 8		5.O	16.5	28.9	7.6	2452
AGS	1	3.5	3.5		5.9	2.9	1.0	3 • 5		F.5	46.7	25.2	8.3	2440
SEP	i	3.7	2.5		4 • 3	2.4	• 7	2.8		1.4	47.9	29.4	5 • 2	2342
$o \in I$	1	4.1	ē +9		5.7	2.5	• 7	2 • 8		6.7	39.2	15.2	6.1	2468
NOV	1	6 • 7	2.5		6.3	3 - 1	1 - 1	3 • 5		7 . 6	73.1	₹5.9	7.8	2346
DEC	1	11.9	3.2		6.9	3.5	. 8	4.4		0 + 1	?1.4	30.1	7 - 1	2433
	101415	5.9	3 • ₺		6.5	3.7	. 0	3.9		b • 1	37.6	28.6	7.6	28566
	••••		• • • • • • • • •	• • • • • • • •	••••••	• • • • • • •	• • • • • • • • •	• • • • • • •			•••••			

FFPPPPP		AAA	444	PRKRR	N R R	11 11 11 11 1	FEEFFEEE
99999	PPPF	AAAA	AAAA	RRRPR		11 11 11 11 11 1	FEEFEEEE
44	PР	L. A.	AA	. RF	RP	TT	FI
ЬÞ	₽ P	Λ Λ	ДЛ	RR	RR	T T	F I.
hhbbb	E bb t	4.4	AA	RRRPR	RRRR	11	FEEEE
LEPPP	P PP	4 4 4 4 4	***	RRERR	RRR	TT	IEFEIL
P P		ይ ይ ለ ላ ል	AAAAA	RR	R B	ΤŢ	EL
РÞ		7. F	AA	₽R	RR	1 7	L.E.
P.P.		t v	ΔB	RR	RR	T T	EFFEFEEFE
PP		7.4	AA	RR	RR	T T	FERELEGIEE

:

.

TEMPERATURE AND RELATIVE HUMIDITY SUMMARIES

CUMULATIVE PERCENTAGE FREE-WOENCY OF OCCURPENCE OF DAILY MAXIMUM (PINIMUM AND MEAN) TEMPERATURES

PERCENTAGE TAGGETIONS PRESENTED BY S-DEGREE FAHRENHEIT INCHEMENTS PLUS THE MEAN, STAND DEVIATIONS AND TOTAL ORSERVATION COUNT.

THE MINIMUM TAPLE ALSO INCLUDES A 33 DEGREE FAHRENHEIT VALUE.

SINCE MANY STATIONIZETES DO NOT HAVE MAXIMUM/MINIMUM THESE TEMPERATURES WERE FLLECTED BY SCAN-BING THE HOURLY CASERVATIONS FOR THE HIGHEST AND LOWEST VALUES.

STATISTICS TO NOT INCLUDE INCOMPLETE MONTHS.

FORE OF MORE COMPLETE MONTHS ARE REQUIRED FOR COMPUTING

EXTREME MAXIMUM AND MINIMUM VALUES

DATA DERIVED FOOM EXTRECTING THE HIGH AND LOW TEMPERATURES FROM THE HOURLY DOSERVATIONS.

PRESENTED ARE THE HIGHEST CLONESTS TEMPERATURE FOR THE MONTH FOR EACH YEAR.

ALSO PPESENTED ARE STATISTICAL VALUES WITH THE SAME LIMITATIONS MENTIONED ALCVI.

AN ASTERIST INDICATES AN INCOMPLETE MONTH.

MEANS AND STANDARD DEVICTIONS FOR DRY BULB (NET BULB AND DEW POINT) TEMPERATURES

HATA DERIVED FROM HOURLY OBSERVATIONS.

DATA PRESENTED BY THE STANDARD 3-HOUR TIME GROUPS BY MONTH, MONTHLY AND ANNUALLY TALL YEARS COMBINED.

PRESENTED ARE MEANS, STANDARD DEVIATION AND OBSERVATION COUNTS.

CHMULATIVE PEPCENTAGE FREQUENCY OF OCCURRENCE OF RELATIVE HUMIDITY

DATA DERIVED FROM HOURLY ORSERVATIONS.

SUMMARIZED BY THE STANDARD 3-HOUR TIME GROUPS BY MONTH, MONTHLY AND ANNUALLY TALL YEARS COMBINEDI.

PERCENTAGE VALUES PRESENTED IN 10 DESPREE INCREMENTS OF RELATIVE HUMIDITY.

ALSO PRESENTED ARE THE MEAN VALUES AND OPSERVATION COURTS.

USAFETAC HOURLY DESERVATIONS
ATR WEATHER SERVICE/MAC

MEAKS AND STANDARD DEVIATIONS

STATION NUMBER: 221132 STATION NAME: MURMANSK USSR

PERIOD OF RECORD: 77-87

JURSI ST ST	1	JAN	FED	MAR	ΔPP	MAY	JUN	JUL	AUG	șt P	001	NOV	t E C	ANN
	A ↑ 1 6 1 0 8 1	6.9 14.541 293	11.7 12.742 259	19.4 10.232 302	27 •2 7 •1 36 2 59	36.9 7.261 303	45.6 9.608 295	51.4 7.349 305	48.7 6.741 302	92.6 5.680 291	73.1 7.743 297	23.6 13.424 291	13.4 14.012 300	30.4 17.418 3537
1011 2 120-1	1230 1230	9.8 14.586 300	12-1 13-961 275	19.1 16.735 306	26 • 7 7 • 7 24 2 98	36.2 6.740 307	44.5 8.642 291	49.6 6.324 309	47.7 6.159 304	42.6 5.776 292	33.5 7.813 306	24.3 10.520 290	14.2 13.906 308	30.1 16.612 3586
1101 5 186-4 1 46	0 P S 1	9.0 14.7 ³ 291	15+7 13+126 272	17.3 11.142 305	25 .0 8 .2 37 2 93	35.3 6.863 376	8.C12 294	49.0 6.175 306	46.2 6.122 305	41.1 5.862 264	32+1 7+923 297	23.4 10.373 289	13.5 13.976 297	29.1 16.919 3539
7-11 S 101	AN D OHS	9.9 14.471 300	11-1 13-312 272	17.0 11.426 300	26 .8 7 .8 98 2 95	38.1 7.633 302	47.4 9.547 291	F2+1 7+657 307	48.9 6.793 306	u2.0 5.891 294	72.3 7.924 302	23.3 10.485 293	13.3 13.965 302	30.3 18.014 3572
ME -14 S 101	0 1 0 1	9.0 14.435 29.3	11.6 13.025 280	23.3 10.352 299	30 -5 7 -1 25 2 90	41.0 8.690 305	50.6 10.912 293	56.2 9.182 306	52+6 8+036 304	45.1 5.960 _73	33.5 7.700 291	23.5 10.590 291	13.7 13.937 302	32°5 19•126 3524
"C -17 S 101	4N U OES!	4.9 14.475 309	13.2 12.239 275	23.7 9.541 386	32 -4 6 - 7 P 3 2 9 7	42.8 9.486 297	52.1 11.421 292	58 • 1 9 • 5 5 4 3 0 6	54.7 8.733 306	46.6 6.436 294	34.6 7.6G8 3G6	23.5 10.570 276	13.3 14.093 306	33.7 19.534 3590
-201 S	AN I	6.9 14.475 296	13.2 12.193 273	23.5 6.918 304	31 -9 6 -9 10 2 ⁶ 8	42.3 9.210 300	51.5 11.218 297	57.7 9.580 305	54.2 8.513 303	46.4 6.651 280	33,5 7.624 294	23.5 10.684 296	13.3 13.965 303	33.5 19.359 3539
	oes i	3.7 14.710 308	12.5 12.324 276	21.3 9.37L 309	29 •5 6 •9 62 2 98	4J.3 6.714 304	49.2 1J.242 295	55.4 5.849 3.2	51.2 7.448 307	43.9 6.161 296	33.1 7.777 305	23.4 10.746 296	13.2 13.872 374	31.9 18.519 3600
"E 	AN I	940 144563 2397	12.0 12.767 2192	2042 10.446 2439	26 .7 7 .7 F7 23 48	39.1 8.551 2424	48.2 10.303 2348	53 • 7 8 • 6 4 7 24 4 6	50.5 7.931 2437	43.8 6.356 2374	33.2 7.787 2393	23.6 10.538 2342	13.5 13.949 2422	31.4 18.308 28487

UUBAL CLIMATOLOGY BRANCH WEI-BULB TEMPERATURES DEG F FROM HOURLY OBSERVATIONS AIR WEATHER SERVICE/MAC

MEANS AND STATIDARD DEVIATIONS

STATION NUMBER: 2.1130 STATION NAME: MURMANSK USSR

PERIOD OF RECORD: 77-87

HOURS STATS JAN	F£H	MAR	APF	4a.Y	JUN	JuL	AUG	SEP	gC T	NOV	CEC	A NN
MEAN 3.5	11.1	18.4	25 .5	34.2	42.0	47.9	46.3	40.8	31.7	22.6	12.9	28.7
7.32 72 12-50	12.126	9.579	6 .6 53	6.158	7.195	6.028	5.983	5.634	7.364	9.932	13.522	16.267
1101 12 12-50	267	30.	2 86	300	292	334	301	289	296	288	297	3513
03-J51 SO 14.128 1701 OPS 3CL	11.5 12.565 273	18.3 10.202 302	25 .3 7 .2 12 2 96	34 • 1 5 • 9 1 9 306	41.8 6.930 293	47.2 5.511 308	45.9 5.83C 3D3	91.1 5.661 291	32.2 7.433 305	23.4 9.970 289	13.7 13.504 308	28.8 15.984 3571
MEAN 6.5	10.1	16 • 7	23.9	33.2	41.4	46.4	44.5	39.8	30.8	22.7	13.5	27.8
36-02 50 14.31g	12.641	10 • 73 9	7.706	6.086	6.883	5.363	5.829	5.778	7.508	9.847	13.573	16. ₀ 77
1101 08S 291	270	30 3	291	354	294	305	304	283	295	288	296	3524
MEAN 3.5	10.7	16.4	25 • 1	34.9	42.9	48.1	46.2	40.4	71.1	22.4	12.9	28•5
T9-11 SD 14.077	12.760	11.066	7 • 2 59	6.218	7.378	5.886	6.083	5.751	7.602	9.9°1	13.552	16•622
TOT ORS 296	269	304	2 94	300	288	306	305	294	301	290	299	3548
MLAN 2.6	11.1	19.1	27.7	36.7	44.5	53.1	48.1	42.3	31.9	22.6	13.2	29.8
12-14 SC 14.102	12.471	9.745	6.191	6.682	7.775	6.254	6.447	5.723	7.286	10.108	13.483	16.979
TOT GHS 286	279	296	290	302	292	395	374	272	289	297	300	3502
MLAN 3.5	12.5	21.0	28 •9	37,6	45.3	50.9	48.5	43.0	32.6	22.6	12.8	30.5
15-17 SC 13.965	11.527	6.221	5 •8 29	7,630	7.831	6.499	6.524	5.678	7.065	10.053	13.67ú	16.945
1101 005 209	272	306	2 54	297	288	303	305	243	305	296	305	3573
MEAN 8.6	12.5	21.1	28 •8	37.4	44.9	50.9	48.9	43.0	31.9	22.5	12.7	30.4
19-22 SD 14.101	11.667	8.174	5 •9 (6	6.922	7.833	6.238	6.404	5.965	7.254	16.166	13.521	16.919
1701 095 296	272	303	2 8 7	298	295	301	300	279	294	295	301	3521
MEAN 8.3	11.7	2J.u	27 • 2	36.4	43.9	49.9	47.6	41.6	31.7	22.5	12.6	29.5
21-23 SD 14.288	11.750	8.743	6 • 3 5 6	6.663	7.627	6.264	6.104	5.892	7.351	10.221	13.462	16.715
101 085 376	274	3G7	2 9 5	302	291	300	304	296	303	296	301	3577
MEAN 8.6	11.4	19.1	26 •5	35.6	43.3	48.9	47.5	41.5	31.8	22.7	13.0	29.2
ALL 50 14.149	12.202	5.757	6 •8 €3	6.648	7.562	6.170	6.31?	5.857	7.371	13.025	13.520	16.589
HOURS(TOT OPS 2.280	2176	2424	23 33	2409	2330	2432	2426	2297	2385	2329	2407	28329

GLOCAL CLIMATOLOGY FRANCH USAFETAC ALR WHATHER SERVICE/MAC UE - FOINT TEMPERATURES DEG F FROM
SHOULTAVASCUE VAPUON

MEANS AND STANDARD DEVIATIONS

STATION NUMBER: 201130 STATION NAME: MURMANSK LSSR

PERIOD OF RECORD: 77-87

LST		JM	F.E.	MAR	AP R	MAY	NUL	Jul	AUG	SEP	eСТ	NO V	CEC	ANN
5 7-3 2	L MEAN SD TOT OBS	292	7.6 12.015 267	14.9 9.77u 301	21.3 7.706 246	30.0 6.709 300	37.9 6.961 292	44.5 6.246 304	43.9 6.124 301	30.5 6.442 289	29.2 7.829 296	19.9 10.007 288	9.9 13.678 297	25.5 16.429 3513
3-45	MEAN SU TOT GES	6.4 14.216 303	4.1 12.556 273	15-1 15-180 302	21 • 8 7 • 7 8 4 2 9 6	30.6 6.438 306	38.5 6.959 290	44.8 5.769 308	44.0 6.133 303	19.2 6.293 291	7,913 305	20.7 9.975 269	10.6 13.603 336	26.U 16.352 3571
นิค=เช	MEAN 1	5.5 14.367 291	5.8 12.704 270	13.8 13.711 303	20 •5 9 •2 33 2 °1	29.6 6.611 304	37.9 7.595 294	43.9 5.762 305	42.8 6.099 304	₹8.0 6.374 293	28.3 8.026 295	20.6 9.994 288	10.1 13.726 296	25.0 16.429 3524
J9-11	I MEAN SD TOT ORS	5.4 14.130	7.4 12.774 259	13.5 11.139 384	20 •9 7 •6 58 2 7 4	29.9 6.832 370	37.7 7.416 288	44.3 6.100 396	43.4 6.453 305	38.4 6.370 294	26.8 8.157 301	19.8 9.971 290	10.0 13.766 299	25.1 16.577 3548
12-14	I MEAN !	5.6 14.239 236	7.7 12.455 279	15.1 9.794 296	21 •5 7 •5 72 2 °C	30 • 1 7 • 32 9 30 2	37.6 7.689 292	44.3 6.360 305	43.6 6.885 304	36.7 6.611 272	28.9 7.827 289	19.8 10.188 287	10.2 13.585 390	25.4 16.439 3502
15-17	-EAN	5,5 14,065 379	8.5 11.373 272	16.4 8.537 306	21 •6 7 •8 °0 2 94	30.2 7.176 297	37.6 7.821 288	44 • 1 6 • 25 £ 3 J J	43.3 7.104 305	38.4 6.731 293	79.1 7.820 305	19.8 10.196 296	9.4 13.766 335	25.4 16.235 3573
18-25	I MEAN !	5.6 14,190	7.6 11.622 272	10.3 8.755 363	21.9 7.884 287	30.5 7.392 298	37.7 7.713 295	44.3 6.642 301	43.5 6.955 3DC	78.9 6.959 279	29.3 7.924 294	19.7 10.275 295	9.7 13.664 301	25.6 16.291 3521
21-23	tior oest	5.3 14.393 308	9.1 11.695 274	15.7 5.J86 307	21 .9 7 .8 67 2 95	30 • 6 7 • 1 2 5 30 2	37.8 7.590 291	44.8 6.591 300	43.8 6.264 304	76.6 6.659 296	79.0 7.917 303	19.7 10.330 296	9.7 13.633 301	25.5 16.440 3577
ALL	MEAN	5.6 14.221 3381	7.9 12.151 2176	15.4 9.331 2422	21 -4 7 -8 54 23 33	30 • 2 7 • 0 3 2 2 4 0 9	37.8 7.437 2330	44.4 6.220 2432	43.6 6.517 2426	78.6 6.578 7297	29.1 7.927 2388	19.9 13.111 2329	10.0 13.654 2407	25.4 16.399 28329

r*

GLOBAL CLIMATOLOGY BRANCH USAFETAC AIR WEATHER SERVICE/MAC CLMCLATIVE PERCENTAGE FREQUENCY OF OCCURRENCE FROM HOURLY ORSERVATIONS

RELATIVE HUMIDITY

STATION NUMBER: 201130 STATION NAME: MURMANSK USSR

PEPIOU OF RECORU: MONTH: JAN

78-87

	FOURS						LATIVE FU				I MEAN I	TOTAL NUM
1		l ict	201	3 %	40.3	50%	603	70%	8.0%	901	[HUMIOITY]	
JAN	33-02	120.0	100.0	130.0	105.0	100.0	99.3	97.3	76.2	34.2	85.2	297
!	23-05	 120.0	160.0	1,0.0	100.0	100.0	100.0	96.7	76.3	37.7	85.7	300
į	36-09	100.0	106.0	130.0	10 0 € €	100.0	100.7	96.6	77.3	35 • 1	85.8	291
į	29-11	177.8	100.0	100.0	100.0	100.0	100.0	97.0	79.2	₹4.0	35.7	298
į	12-14	170.3	100.0	100.0	100.0	99.7	99.7	97.2	81.5	37.F	86.3	286
	15-17	100+0	100.0	130.0	106.0	100.0	160.0	97.1	78.6	36.0	85.0	305
į	18-27	100.0	185.8	130.0	10(.5	100.5	100.7	96.3	78.7	39.5	86.0	29€
į	21-23	197.5	100.0	160.C	100.0	100.0	100.0	97.1	76.3	37.7	85.9	30 <i>E</i>
i	TOTALS	1 100.0	100.0	100.0	10 C • C	100.5	99.9	96.9	77.9	36.7	95.8	2380

_

•

GLOBAL CEIMAICLOGY BRANCH USAFETAC AIR WEATHER SFRVICE/MAC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCUPRENCE RELATIVE HUMIDITY FROM HOURLY OBSERVATIONS

STATION NUMBER: 271130 STATION NAME: MURMANSK USSR PEP100 OF PECORU: 78-87

MONTH	HOURS	1	PE	RCENTAGE	FRE QUENC	Y OF RE	LATIVE PU) M I U I M V	GREATER		MEAN RELATIVE		
	!	103	201	302	4C %	501	601	7 D %	803	701			
rea	 30-02	150.0	100.0	1-0-0	100.0	100.0	100.0	93.3	65.2	26.6	83.6	267	
	1 23-35	150.3	135.7	100.0	100.0	100.0	100.0	95.2	64.8	27.€	84.1	273	
	1 06-08	100.0	100.0	160.0	100.0	100.0	98.9	95.2	72.2	27.5	84.4	270	
	.9-11	130.3	175.0	130.0	10(.6	100.0	100.0	97.0	71.7	25.7	84.6	265	
	12-14	100.6	100.0	100.0	10 C • C	100.0	99.6	93.9	66.7	25.8	84.0	275	
	15-17	100.2	193.0	100.0	100.0	100.0	98.5	86.4	56.3	19.9	81.3	272	
	, 1a-25	190.5	130.0	100.0	100.C	100.0	99.6	90.4	58.5	22.5	82.5	272	
	21-23	1 [100.0	150.0	1.0.0	10 e. c	100.0	99.6	92.3	63.0	24.1	83.1	274	
	TOTALS	130.0	100.0	100.0	100.0	100.0	99.5	92.9	64.9	25.0	83.5	217€	

GLUBAL CLIMATOLOGY BRANCH CUMLLATIVE PERCENTAGE FREQUENCY OF OCCUPRENCY USAFETAC FROM HOURLY OBSERVATIONS
AIR MEATHER SERVICE/MAC

RELATIVE HUMIDITY

STATION NUMBER: 201130 STATION NAME: MURMANSK USSR

PEDIOD OF RECORD: 75-87
MONTH: MAR

H	HOURS	•				Y OF REL					1 MEAN RELATIVE!	
• • •		163	201					70%	80%	90 t	HUMIDITY	
, !	20-02	130.0	100.9	120.0	100.0	99.7	95.7	85.7	62.1	36.5	83.2	301
1	53+55	190.0	100.0	100.C	10 C • C	99.7	96.7	88.7	71.9	30.7	84.5	302
-	76+08	1 137.5	100.0	100.0	165.8	100.0	98.3	92.4	78.9	43.5	86.3	300
	39-11	100.0	170.0	100.0	10 J. C	100.0	98.7	93.4	78.3	44.4	36.4	304
	12-14	i ion.e	100.0	100.0	100.0	99.7	96.5	an.7	54.1	25.7	87.9	296
i	15-17	180.9	100.0	100.0	90.7	96.1	88.6	00.5	33.3	16.3	74.6	30€
i	16-27	100.0 	100.0	106.0	99.7	97.7	87.3	٥5.0	34.7	13.2	74.9	303
	21-23	155.7	100.0	100.0	100.5	99.3	94.1	a g.5	53.1	25.7	80.5	307
- 1	TOTALS	1 100.0	120.5	106.0	99.9	99.0	94.6	60.9	58.3	37.5	81.4	2422

DLODAL CLIMATOLOGY BRANCH USAFETAC AIR REATHER SERVICE/MAC CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE FROM HOURLY OBSERVATIONS

RELATIVE HUMIDITY

										MONTH: AP		
HIND	HOURS I				F RE QUENC			YTIUINU	GREATER	THAN	MEAN	TOTAL
i	1	163	201	3.32	403	501	6 D ¥	70%	8បូង		IPUMIDITY	
APR	00-62	100.1	105.0	140.0	100.0	98.3	89.5	75.9	54.7	24 • 8	79.5	286
	33-05 I	130.3	190.0	130.0	10 e. C	99.3	94.3	82.4	63.9	35 • 1	82.6	296
į	n6-58	130.0	100.0	100.0	99.7	99.0	96.2	85.9	66.7	31.8	83.7	291
1	39-11	130.0	100.0	120.0	100.0	97.6	92.2	73.P	52.4	24.5	79.2	294
ļ	12-14	1:00 • 4	130	40.7	94.6	88.6	72.4	52.4	28.3	9.3	70.5	291
į	15-17	100.0	99.7	99•℃	95.2	80.6	62.9	38.8	21.1	6 • 1	66 - 1	294
į	18-27	100.2	100.0	98.3	95.1	83.6	65.2	49.5	28.9	я.д	68.3	267
- }	21-23	100.0	180.5	100.0	99.1	94.2	79.7	61.4	40.0	12.9	74.2	295
;	TOTALS I	100.0	100.5	99.6	98.5	92.7	81.5	65.0	44.5	19.9	75.5	2333

GLOBAL CLIMATOLOGY BRANCH USAFETAC AIR WEATHER SERVICE/MAC CLHULATIVE PLACENTAGE FREQUENCY OF OCCURRENCE FROM HOURLY OBSERVATIONS

RELATIVE HUMIDITY

STATI	CN NUMEE	R: 221130	STATION	NAME:	MURMANSK	USSR				PL9100 OF		78-87	
MONTH	HOURS				E FRE OUFAC						MEAN		
	1			3.,2		50%		70%		901	HUMIDITY		į
MAY	 ::::::::::::::::::::::::::::::::::	1 100.	100.0	1,6.0	99.7	95.7	89.3	67.3	44.7	15.3	77.5	300	••••
	73-05	1.00.0	130.0	130.0	100.0	98.4	93.9	79.7	60.5	23.5	31.4	30€	
		100.0	193.5	160.0	100.0	99.0	94.4	75.3	55.3	24.7	80.5	304	
	79~11	1:0.0	106.2	1.0.0	98.3	92.3	81.7	53.7	38.7	16.0	73.8	30L	
	12-14	100.3	100.0	99.0	97,7	81.8	61.9	42.7	26.2	9.7	67.2	302	
	15-17	150.5	100.0	96.6	8 7. 9	74.4	53.9	39.4	21.2	7.1	63.9	297	
	18-23	160.3	103.0	97.3	91.3	81.5	62.4	37.9	20.1	7.0	65.4	296	
	21-23	150.5	100.0	99.0	94.4	85.8	73.5	50.3	31.8	12.3	73.4	30;	
	I I TOTALS	1 121.	103.0	99.0	95.5	88.6	76.3	55.9	37.3	14.8	72.5	2409	

GLOBAL CLIMATCLOGY FRANCH USAFETAC AIR WEATHER SERVICE/MAC

CUMULATIVE PERCENTAGE FPEQUENCY OF OCCUPRENCE FROM HOURLY OBSERVATIONS

RELATIVE HUMIDITY

5 1411	ON NUMBER	2: 201130	STATION	NAME:	MURMANSK I	USSR				PERIOD OF MONTH: JUN		79-87	
	HOURS				FRE QUENC		LATIVE PL	MIDITY	GREATER	THAN	MEAN	TOTAL	• • • • •
	1 1	1.3	201	3.1	40 \$	50\$	601	78%	80%	90\$	HUMIDITY	085 [
NUL	1	 180.5	•	106.0	94.3	92.5	84.9	67.1	43.2	16.4	75 • 8	297	
	03-05	100.0	100.0	130.0	100.0	98.3	91.7	79.3	57.6	21.0	80.4	290	
	1 96-04	100.0	100.0	100.0	100.0	96.9	91.9	75.9	50.3	21.1	79.3	294	
	5.9-11	100.0	100.0	150.€	96.9	86.1	72.7	54.5	31.9	12.2	71.4	288	
	12-14	100.C	100.0	96.9	84.9	73.3	59.2	39.0	23.3	11.6	64.4	292	
	15-17	10.2	100.0	94.4	82.6	67.4	49.0	33.3	19.4	۶.7	61.3	28€	
	15-20	130.3	100.0	45.5	85.8	72.5	52.2	34.9	22.4	7.5	62.6	295	
	21-23	125.0	130.0	97.5	92.1	83.2	63.9	46.4	25.4	9.3	67.4	291	
	TOTALS !	100.7	100.0	98.1	92.7	83.8	79.7	53.8	34.2	13.°	70.3	2330	

ULDRAL CETMATCLOGY BEANCH USAFETAC AIR WLATHER SERVICE/MAC

CLMILATIVE PERCENTAGE FREQUENCY OF OCCURRENCE FROM HOURLY OBSERVATIONS

RELATIVE HUMIDITY

PERIOD OF RECORDS STATION NUMBER: 221130 STATION NAME: MURMANSK USSR

										Child: 30	L 		
	HOURS	•			F RE QUIFNO						MEAN PEITAJON		
	,, 	16:		3.03	40.2		67%			92%	PUTOIMUH		
JUL	 15-62	120.0	170.0	99.7	94.3	97.0	88.5	78.3	48.4	27.4	79.5	364	
	 '3-05	155.0	100.5	160.0	16 C+ C	99.4	94.5	89.6	67.3	20.0	84.7	30F	
	(36~6¤ 	100.0	100.0	106.0	95.7	98.4	96.1	37.9	63.9	27.5	83.2	701	
	9-11	ו • מר 1	150.0	99.7	98.0	95.4	64.3	69.3	43.1	13.7	76.3	30E	
	12-14	107	100.0	97.7	91.5	79.7	66.7	44.9	23.9	де	66.9	335	
	15-17	1:3.0	39.7	97.C	86.1	71.9	53.9	38.7	19.1	5 . ?	62.8	303	
	18-20	100.0	79.7	95.3	8 7	73.4	55.9	43.2	21.6	7 . 3	63.9	301	
	21-23	150.0	100.0	98.3	94.C	87.0	70.3	50+0	31.0	13.3	70+1	320	
	TOTALS	1 100.0	94.9	98.5	94.6	87.8	76.3	62.6	39.0	16.4	73.2	2432	

LLOBAL CLIMATULOGY ERANCH LSAFETAC AIR WEATHER SERVICE/MAC

1

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE FROM HOURLY OBSERVATIONS

FELATIVE HUMIDITY

STATION NUMBER: 201120 STATION NAME: MUPHANSK USSR PERIOD OF RECURD: 79-87 MCMTH: AUG 1 16% 26% 35% 805 10-02 101.0 120.0 130.0 100.0 98.0 91.4 67.1 25.2 33.8 331 78.2 43.6 33-05 1.36 • 3 100.0 101.0 100.0 160.3 96.7 100.0 80.3 88.1 304 100.0 101.0 102.0 99.7 98.0 44.4 '6-[B 100.0 100.0 58.0 305 100.0 99.7 97.0 86.6 19.7 31.9 3-11 100.0 150.0 10 3. 7 12-14 10...0 130.0 100.0 94.4 16.7 55.6 31.3 12.2 72.5 334 7.0 355 15-17 100.0 ₹9.7 95.7 83.6 64.9 44,3 24.3 67.7 100.0 120.0 99.7 96.2 87.3 69.7 45.3 24.7 11.7 68.80 300 100.0 100.0 100.0 95.7 97.0 89.1 71.7 38 . 5 13.5 76.7 304 1 21-23 73.7 242E FROTALS ! 100.5 100.0 99.9 86.5

SAFE	140	OLOGY PRAMI Ervici/mac		COMUL	ATIVE PER FROM -		FREQUENT 3SERVATIO		URRENCE		RELATIVE	FUMIOITY
, TATIC	ow HimbEl	R: 201135	STATION	NAME:	MERM ANSK	LSSR				PERIOD CF MONTE: SEA		77-86
101-11-1	FOURS				FRECULNO						1 MEAN	TOTAL (
! !		1 :::	. 1.1	30%	42 \$	50%	608	7 ភ ដ	e	2.2	[HUMIDITY	
- 1	10-02	1			10:5.5	130.0	97.9	92.4	75.1	36.3	A5.5	284
	73-15	: 173•5	100.0	1.5.0	161.3	100.0	99.7	96.2	81.1	44.7	67.8	. 51
	1.6 + 0.8	151.1	130.9	130.0	100.0	100.0	99.6	98.2	83.4	49.1	98.7	283
1	9-11	15.5	100.0	100.0	100.0	150.3	99.7	96.3	80.7	36.7	86.7	294
Í	114	100.0	100.0	100.0	100.0	97.8	92.6	79.0	47.4	10.0	78.7	27;
	:5-17	1 1 1 1 1 1	103.0	130.0	99.0	94.2	ε1.9	64.8	34. r	10.2	73.9	293
!	15-21	lan•r	100.5	100.0	90.7	96.4	6,03	67.0	42.7	1 °, • °	76.1	274
1	. 1-2!	100.0	170.0	100.0	100.0	99.3	97.3	85.1	58.F	27.6	72.7	29 t
J	TOTALS	r 1 - 155•5	100.0	100.0	47.8	98.5	94.2	84.9	62.9	įA.A	82.4	2297

SUBSTRUCT SERVICE/MAC CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE RELATIVE HUMIDITY USAFETAG FROM HOURLY OBSERVATIONS

AIR MI	ATHER S	ERVICE/MAC	•										
SIATIO	in wakafi	R: 221130	STATICN	NAME:	MURM AN SK	USSR				40.141. CC		7-86	
MONTE	FOURS	! !			FRE QUENC						MEAN INFLATIVE	10141	<u> </u>
	i	1 163	223	361	40 %	50%	634	76%	801	30,8	PTTUIPUH		. i
201	 Sù+UZ	1	175.0	••••	10.000	100.0	58.6	93.9	79.4	32.8	86.0	29€	
!	1 1 03-05	 150.0	160.0	150.0	10 c • C	100.7	99.9	93.1	81.3	40.7	87.0	30!	
	16-09 	170.0	155.45	100.0	101.0	59.7	98.0	93.2	76.9	44.4	86.5	295	
	 '9-11 	101.1	1 46 • 5	100.0	100.0	100.0	98.3	93.4	80.4	46.7	97.7	301	
	12-14	2 23 - 2	190.0	100.0	105.0	100.0	97.2	88.2	70.2	2F + D	33.7	285	
	15-17	100.0	100.0	130.0	160.0	99.3	94.1	82.0	58.4	29.1	81.2	305	
	18-27	100.0	100.0	150.0	10.5 • 0	100.7	98.6	89.1	69.0	33.7	64.1	294	
	21-23	120.0	100.0	1,0.0	100.0	100.0	98.7	93.1	74.3	32.7	95.1	303	
i	TOTALS	100.0	1^0.0	100.0	10 ℃ 0	99.9	97.9	90.B	73.7	35.2	85.1	238F	

USAFFIAC AIR MEATHER SERVICE/PAC

ELCONAL CLIMATOLOGY PRANCH CUMULATIVE PERCENTAGE FREQUENCY OF OCCUPRENCE FROM HOURLY OBSERVATIONS

RELATIVE HUMIDITY

STATION NUMBER: 221130 STATION NAME: MURMANSK USSR PLEIDU OF RECORD: "0" It : 1,0V NOV | 35-67 | 100.0 100.0 100.0 99.7 94.1 19.3 30.5 96.1 286 14 C. C 99.7 33-05 | 100.0 100.0 101.5 99.7 99.7 95.3 77.5 41.9 285 99.7 3-:1 1.30.0 1 3E • C 100.0 10 0 . 0 100.0 99.7 95.9 79.7 86.7 296 100.0 100.0 100.0 100.0 12-14 100.0 99.1 94.4 75.6 41.1 36.2 287 15-17 150.1 190.0 100.0 100.0 100.0 37.2 99.7 94.3 73.6 85.7 29€ :a-:3 1 100.0 100.0 100.0 100.0 99.7 46.3 73.6 39.6 85.6 291 21-23 1 130.0 105.0 100.0 160.0 100.0 99.7 96.3 79.1 35.1 95.9 29€ 100.0 100.0 100.0 100.0 99.9 LIGIALS 1 99.5 95.3 77.1 39.2 86.2 2325

JEONAL CLIMATOLOGY FRANCH USAFETAC AIR ACATHER SERVICE/MAC

10-02

~3-0= [

1.6--3

79-11

12-14 1

15-17

18-27

1 21-27 1

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE FROM MOURLY OBSERVATIONS

106.6 100.0

100.0 100.0

100.0 100.0

100.0

100.0

100.0

100.0

99.7

99.7

99.6

97.7

96.7

96.3

80.7

79.1

79.6

100.0

10 ℃. €

100.0

10 i . C

10 0 ⋅ 5

RELATIVE FUMIDITY

301

331

2437

85.6

86.1

85.9

rentag of PECOPO: 77-86

STATION NUMBER: 201137 STATION NAME: MURHANSK USSR

100.0 170.0 100.0

100.0 100.0 100.0

TTOTALS | 100.0 100.0 100.0 100.0 100.0

130.0

100.0

130.0

130.0

130.0

100.0

100.1 100.5

100.0

100.0 100.0

100.3 100.5

150.0 100.0

100.0 160.0

MUNIH: UEC 85.9 297 32.7 81.1 99.3 95.6 86.4 30 E 96.4 39.6 78.6 99.4 296 36 . 4 85.9 79.7 99.3 96.6 37.1 66.0 97.3 78 .€ 30.7 85.5 305 100.0 95.3 78.0 30! 85.7 95.4 80.7 37.4

31.6

42.5

36 • 3

. . .

GLOBAL CLIMATOLOGY BRANCH USAFETAC AIR WEATHER SERVICE/M/C

CUMULATIVE PERCENTAGE FPEQUENCY OF OCCUPRENCE PELATIVE HUMIDITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 201130 STATION NAME: MERMANSK USSR

PERIOD OF PECORD: 77-87
MONTH: ALL

MONTH	POURS	ľ	PE	RCENTAGE	FREQUENC	Y OF R	ELATIVE	YTIUIMUH	GREATER	THAN	MEAN	1014L Nut	
!	16211	101	202	3.0.12	40 %	50%	601	70%	8 L %	96%	[HCMIDITY]		
JAN	ALL	1cp.5	136.0	100.C	1 0 0 • 0	100.0	69.9	96.9	77.9	36.7	£5.8	2380	, , , , ,
FEB [1_7.0	135.0	120.0	160.0	100.3	99.5	92.9	64.9	25.0	83.5	2176	
484 484		193.E	160.0	130.0	90.9	99.0	94.5	a (° • 9	58.7	35.5	81.4	2422	
V54		1:00.7	185.0	99.6	98.5	92.7	81.6	U > • 7	44.5	10.0	75.5	2333	
74 A A		1⊍n•"	100.0	99.C	95.9	88.6	76.3	55.0	37.3	14.9	72.5	2405	
Jun I		100.3	185.8	98.1	92.7	83.8	73.7	53.4	34.2	13.5	73.3	2331	
Jul 1		100.1	44.9	98.5	94.6	87.8	76.3	62.6	39.0	16.4	73.2	2432	
۵۱۵ ا		150.3	100.0	55.9	99.0	95.2	86.9	73.7	50.3	21.7	78.3	242€	
SEP		100.5	100.0	100.0	99.8	99.5	94.2	84.9	62.0	2ª.¤	82.4	2297	
001		107.0	170.0	160.0	100.0	99.9	97.9	90.8	73.7	35.2	85.1	2368	
иои		130.5	100.0	100.0	100.0	99.9	99.5	95.3	77.1	39.2	86 • 2	2325	
DEC		130.0	1.0% • 0	100.0	3.764	100.0	99.6	y6.3	79.6	36.3	85.9	2437	
i	TOTALS	: ביים:	100.0	49•€	98.4	95.5	89.7	79.1	58.4	26.5	80.7	28325	

GATA NOT AVAILABLE

	e 00		AAA	RREPRERE		7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	FFFFFFFFF
44444 44444			AAAA	ព្រះព្រ	RRRR	TT TT T TT T T	FFFFFFFFF
56	FF	Λ.δ.	AF	8.6	88	11	f F
P.P	r p	# A	AA	8.0	9.9	וז	((
PPPPP				RRERE	RRRR	7.7	FFFFF
66666			14 4414	RERE	RRR	TT	FFFFFF
PP	P PI		AAAAA	RF	p.p	7.7	f F
P P		2.0	44	RR	RR	1 7	FF
F P		4.6	AA	RH	RR	7.7	r ŧ
0.0		* *	Δ.Δ.	ŔΒ	₽R.	Į T	£ f

PATA NOT AVAILABLE